



SCV VALVE
Innovative Valve Solutions®



[281] 482-4728 • www.scvalve.com



3-Piece Trunnion Ball Valves - API 6D Full & Reduced Port

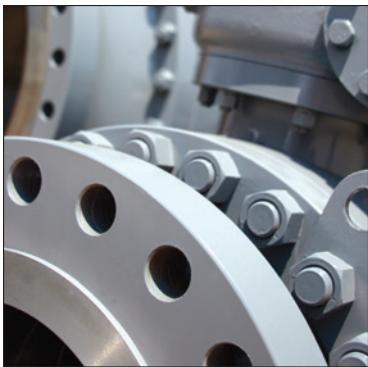
Class: 150 - 2500

Sizes: 1" - 42"



API 6D Trunnion Ball Valve
Size: 36"
Class: 600
Bore Coating: Scotchkote™ 134





SCV VALVE manufactures some of the most dependable cast and forged steel Ball Valves in the industry. Our products are manufactured and tested in accordance with respective API, ASME, and ANSI standards. With features such as double block and bleed capabilities, secondary sealant injections, and spring energized self relieving seats, the SCV design offers many features and options beneficial for oil, gas, and liquid applications making it one of the most preferred ball valves on the market.



Innovative Valve Solutions.®



SCV Ball Valves

[Product Preview]

For more information call us @ [281] 482-4728 or visit our website @ www.scvalve.com

3-Piece Trunnion Ball Valves - API 6D - Full & Reduced Port

- Basic Design: API 6D
- Wall Thickness: API 6D
- Face-to-Face Dimension: API 6D
- Flange End Dimension: ANSI/ASME B16.5 [1" to 24"], ANSI/ASME B16.47 [26" & up]
- Butt-Weld End Dimension: ANSI/ASME B16.25
- Inspection & Testing: API 6D
- Fire Safe Design: API 607/BS 6755

API 6D Trunnion Ball Valve
Size: 36"
Class: 600
Bore Coating: Scotchkote™ 134



Note: Not recommended for throttling applications.

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.



SCV Valve's product lines include commodity valves as well as specialty valves in all sizes, pressure classes & metallurgy; including carbon steel, stainless steel & exotic alloys. The valve types include:

- Thru Conduit Gates - Slab & Expanding Gate Designs
- 3-Piece Trunnion Mounted Balls
- Floating Balls
- Wedge Gates
- Globes
- Full Port Swing Checks
- Piston Checks
- Dual Plate Checks - Wafer & Lug Designs
- Pressure Balanced Lubricated Plugs

SCV Valve's high quality standards demand 100% pressure testing of every valve to insure its reliability and full customer satisfaction. We pride ourselves with high quality products, timely deliveries, and competitive prices.

Company History

The SCV valve brand was established in 1972. The primary focus of the Company was to provide full inline field service for valve maintenance as well as in house valve modifications. While serving the Power Industry, Paper & Pulp, Oil & Gas, and the Petro Chemical Industry; through years of dedication and commitment to quality and service, SCV had become one of the largest full range, field service companies, with a reputation for superior quality.

In the mid 1970s, the SCV brand entered the valve manufacturing industry, primarily serving the Power Industry. Since that time, the SCV brand has expanded its products to cover a broad range of valves. SCV Valve holds the API 6A & API 6D Monogram, API Q1 Quality Management System, and ASME "R" stamp. The manufacturing facility, sales and projects office is located in Santa Fe, Texas.

Mission Statement

SCV Valve is committed to consistently providing products that meet or exceed customer and regulatory specifications. SCV Valve aims to enhance customer satisfaction through implementing the highest levels of quality standards while assuring full conformity to those requirements.

Table of Contents

	Page
Table of Contents.....	1
Complete Product Line.....	2
Certifications.....	3
· American Petroleum Institute [API]	
· ISO 9001:2008	
· Canadian Registration Numbers	
· CE PED	
Figure Number Chart	4 & 5
Technical Data for Optional Seal & Seat Selections.....	6
3-PIECE TRUNNION BALLS - API 6D	7
Bolted Body Expanded View.....	8
Bill of Materials.....	9 & 10
Pressure Temperature Chart.....	11
Design Features & Applications.....	12 & 13
150 Class Full Port.....	14
150 Class Reduced Port.....	15
300 Class Full Port.....	16
300 Class Reduced Port	17
600 Class Full Port.....	18
600 Class Reduced Port	19
900 Class Full Port.....	20
900 Class Reduced Port	21
1500 Class Full Port	22
1500 Class Reduced Port	23
2500 Class Full Port.....	24
2500 Class Reduced Port	25
Liquid: Pressure Loss Curves for Trunnion Ball Valves	26
Gas: Pressure Loss Curves for Trunnion Ball Valves	27
Operating Torques.....	28
Pressure Temperature Ratings	29, 30, & 31
Flange Dimensions.....	32 & 33
Butt-welding Dimensions	34 & 35

Complete Product Line

Call SCV Valve today @ [281] 482-4728 for all your valve needs or visit us on the web @ www.scvalve.com.

THRU CONDUIT GATES - SLAB & EXPANDING

Design: API 6D

Sizes: 2" - 42"

Class: 150 - 1500

Standard stock.

Design: API 6A

Sizes: 9", 11" & 13-5/8"

Pressure: 2000, 3000, 5000

Limited inventory availability.

All sizes and pressure classes made to order.



PISTON CHECKS

Design: API 6D

Sizes: 2" - 24"

Class: 150 - 2500

Standard stock.

FULL PORT SWING CHECKS

Design: API 6D

Sizes: 2" - 36"

Class: 150 - 2500

Standard stock.



3-PIECE TRUNNION BALLS

Design: API 6D

Sizes: 2" - 42"

Class: 150 - 2500

Standard stock.

Design: API 6A

Sizes: 2-1/16" - 7-1/6"

Pressure: 2000, 3000, 5000

Limited inventory availability.

All sizes and pressure classes made to order.



FLOATING BALL VALVES

Design: B16.34

Sizes: 1/2" - 12"

Class: 150 - 1500

Standard stock.



GLOBES

Design: API 623

Sizes: 2" - 24"

Class: 150 - 2500

Limited inventory availability.

All sizes and pressure classes made to order.



WEDGE GATES

Design: API 600

Sizes: 2" - 48"

Class: 150 - 2500

Limited inventory availability. All sizes and pressure classes made to order.



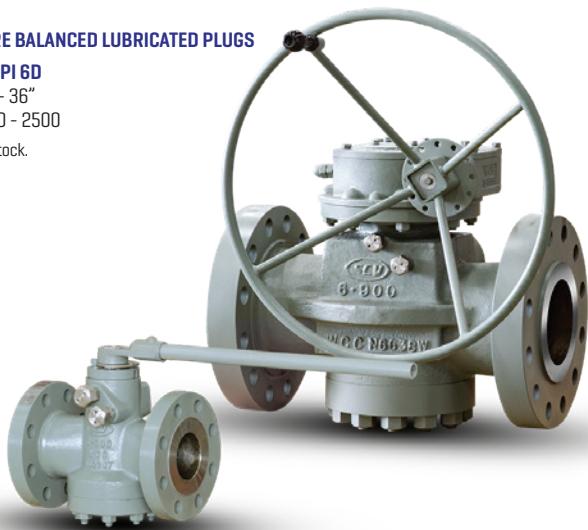
PRESSURE BALANCED LUBRICATED PLUGS

Design: API 6D

Sizes: 2" - 36"

Class: 150 - 2500

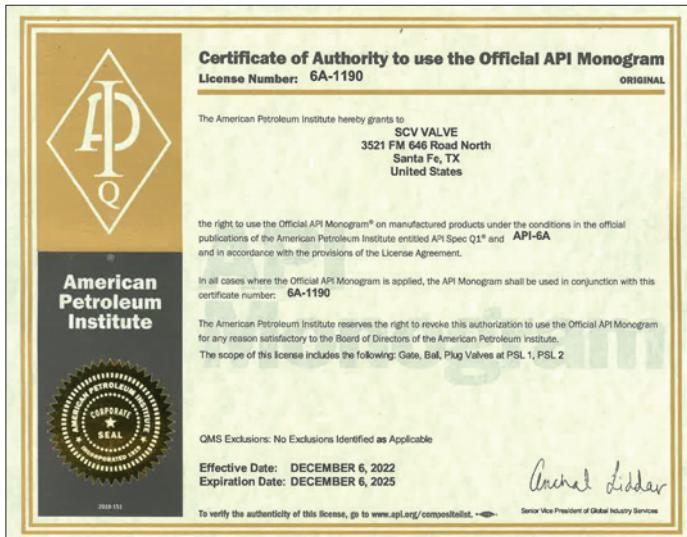
Standard stock.



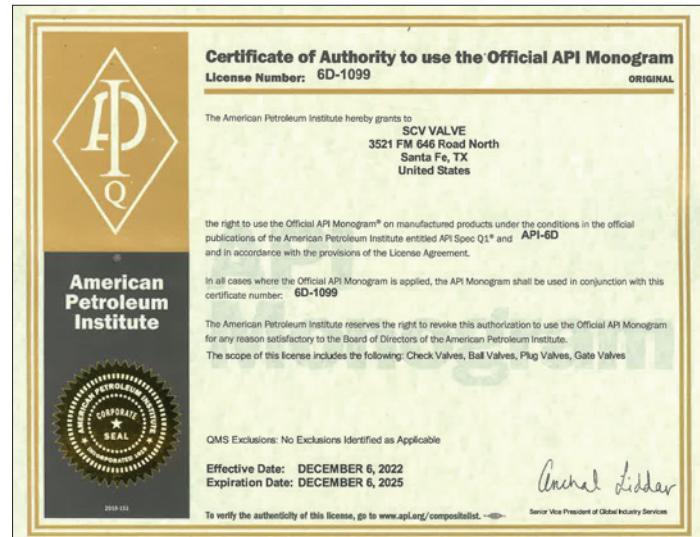
Certifications & Registrations

American Petroleum Institute (API)

API 6A Certification



API 6D Certification



ISO 9001:2015 Certificate



CE PED Certificate



Canadian Registration Number

Alberta - OC07063.2	New Brunswick - OC07063.27	Northwest Territory - OC07063.25	Nunavut - OC07063.2N	Ontario - OC07063.25	Yukon - OC07063.22
British Columbia - OC07063.21	Newfoundland & Labrador - OC07063.20	Novascotia - OC07063.27	Manitoba - OC07063.24	Prince Edward Island - OC07063.29	

SCV Figure Number Chart

Note: SCV Figure Chart is subject to change without notice.

9

10

11

12

13

14

15

Sample Figure Numbers & Descriptions

Note: Subject to change without notice.

Control #: MSF 3.5-16 rev 17

Valve ID Tag & Valve Markings Identification

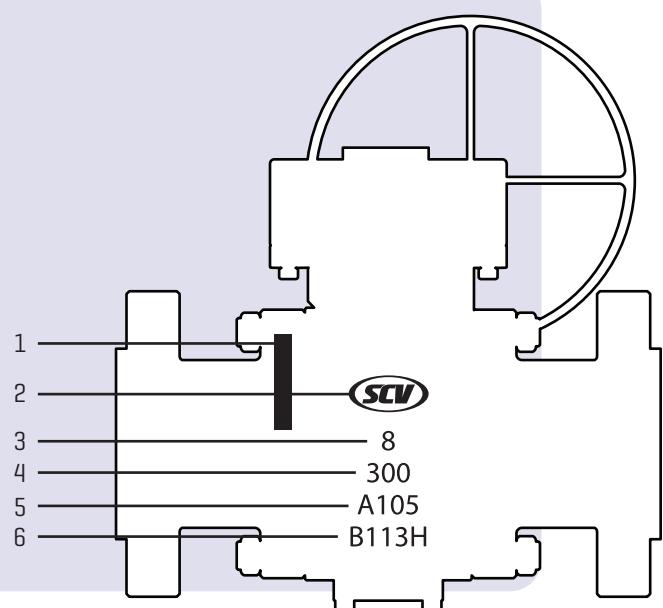
Valve ID Tag

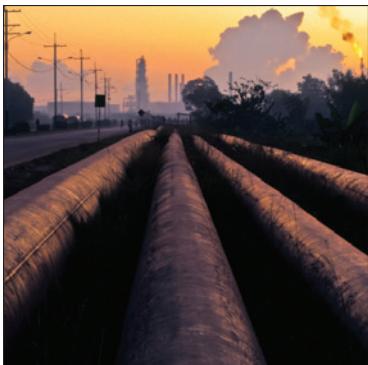
ISO 14313		SIZE CLASS	BODY STEM	BALL/DISC	SEAT	MFG DATE	API	O RING	NACE MR 01 75
S/N. NO.									
FIG. NO.									
MOP/MAX TEMP									

No.	Figure Number Code	Description
1	Serial Number	Identifies certified manufacturers serial number
2	Figure Number	Identifies the detailed valve configuration [valve type, bore size, pressure class, materials, etc.]
3	MOP/Max. Temp.	Identifies the maximum operating pressure in PSI and maximum operating temperature in Fahrenheit
4	Size	Identifies bore size
5	Pressure Class	Identifies pressure classifications per API requirements
6	Body Material	Identifies body metal material composition [A105, WCB, F51, CF8M, etc.]
7	Stem Material	Identifies stem material composition [A105, 410SS, 17-4ph, etc.]
8	Ball/Disc Material	Identifies ball/disc material composition [A105, 316SS, ENP, etc.]
9	Seat Material	Identifies seat material composition [PEEK, Teflon, Nylon, etc.]
10	MOP/Min. Temp.	Identifies the maximum operating pressure in PSI and minimum operating temperature in Fahrenheit
11	Manufacturing Date	Identifies the date the valve manufacturing completion date
12	API Conformance	Identifies API conformance [600, 6D, 6A, etc.]
13	O Ring	Identifies the O Ring material composition [Viton, Viton GLT, etc.]
14	NACE MR 01 75	Identifies corrosion resistance

Valve Markings

No.	Valve ID Components
1	Tag
2	Brand
3	Size
4	Pressure Class
5	Body Material
6	Heat Number





3-Piece Trunnion Ball Valves - API 6D

Full & Reduced Port

Class: 150 - 2500/Sizes: 1" - 42"

Design and Manufacturing Standards	
Basic Design	API 6D
Wall Thickness	API 6D
Face-to-Face Dimension	API 6D
Flange End Dimension	ANSI/ASME B16.5 [1" to 24"] ANSI/ASME B16.47 [26" & up]
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 6D
Fire Safe Design	API 607/BS 6755

API 6D Trunnion Ball Valve
Size: 36"
Class: 600
Bore Coating: Scotchkote™ 134

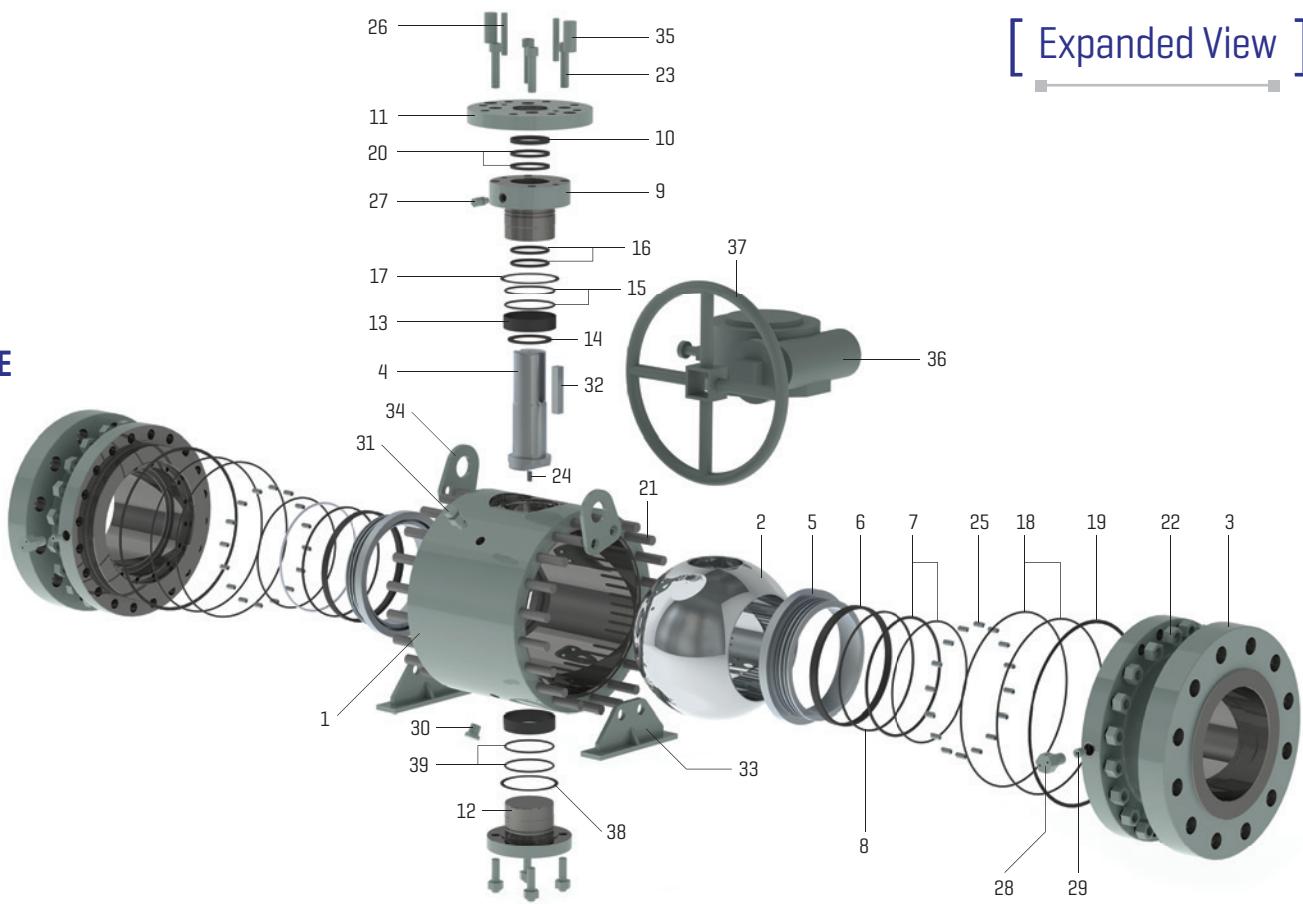


3-Piece Trunnion Ball Valves - API 6D

Model E & I: Full & Reduced Port

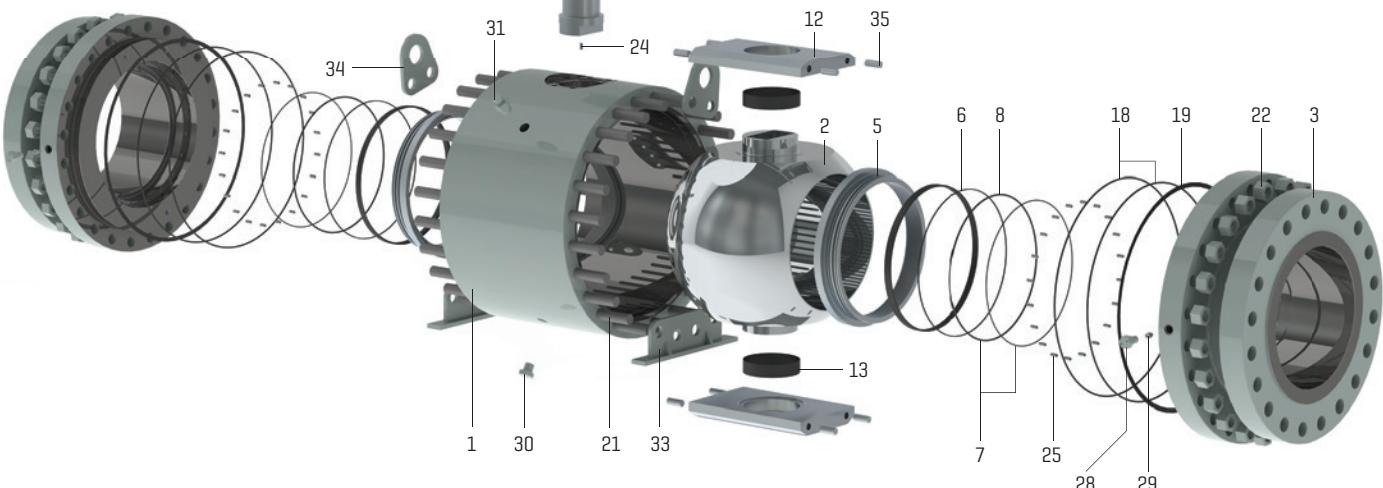
[Expanded View]

Model E



Model I

[Bill of Materials on page 12]



3-Piece Trunnion Ball Valves - API 6D

Model E: Full & Reduced Port

[Bill of Materials]

No	Name Of Part	Materials	
1	Body	A350 LF2	A182 F316
2	Ball	A350 LF2+ENP	A182, F316, A351, 410 SS
3	Adapter	A350 LF2	A182, F316, A351
4	Stem	A182 F6A Class 2	316 SS, 17-4 PHSS, 410 SS
5	Seat Ring	A350 LF2+ENP	316 SS, 410 SS
6	Seat Insert	Devlon, Nylon, PEEK, RTFE	
7	Seat O-ring [2]	Low Temp HNBR /Viton AED	
8	Seat Seal	Graphite	
9	Gland	A350 LF2	316 SS, 410 SS
10	Gland Ring	A350 LF2	316 SS, 410 SS
11	Mounting Plate	A350 LF2	316 SS, 410 SS
12	Trunnion	A350 LF2	316 SS, 410 SS
13	Trunnion Bearing [2]	PTFE, Carbon Steel	PTFE, 316 SS
14	Thrust Washer	PTFE, Carbon Steel	PTFE, 316 SS
15	Gland O-ring [2]	Low Temp HNBR /Viton AED	
16	Stem O-ring [2]	Low Temp HNBR /Viton AED	
17	Gland Gasket	Graphite	
18	Adapter O-ring [2]	Low Temp HNBR /Viton AED	
19	Adapter Gasket	Graphite	
20	Mounting Plate Gasket [2]	Graphoil	
21	Stud Bolt	A320 L7M	A193 B8
22	Hex Nut	A194 7M	A194 8
23	SHCS	A320 L7M	A193 B8
24	Anti-Static Spring	Inconel X-750	
25	Seat Spring	Inconel X-750	
26	Dowel Pin	Carbon Steel	Stainless Steel
27	Grease Fitting	316 SS	
28	Grease Fitting, BGH	316 SS	
29	Ball Check	Stainless Steel	
30	NPT Plug	316 SS	
31	Vent Fitting	316 SS	
32	Stem Key	Carbon Steel	Stainless Steel
33	Foot Plate	Carbon Steel	Stainless Steel
34	Lift Plate	Carbon Steel	Stainless Steel
35	Body Dowel Pin	Carbon Steel	Stainless Steel
36	Gear Operator	Ductile Iron, Carbon Steel Worm Gear	
37	Handwheel	Carbon Steel, Ductile Iron	
38	Trunnion Gasket	Graphite	
39	Trunnion O-ring [2]	Low Temp HNBR /Viton AED	

Note: Materials also available in F321, F347, F51, F53, monel, inconel, incoloy and hastelloy. Metal-to-metal seated ball valve designs are available upon request.

Note: Additional materials available upon request.

*= Used only with bolted body construction.

3-Piece Trunnion Ball Valves - API 6D

Model I: Full & Reduced Port

[Bill of Materials]

No	Name Of Part	Materials	
1	Body	A350 LF2	A182 F316
2	Ball	A350 LF2+ENP	A182, F316, A351, 410 SS
3	Adapter	A350 LF2	A182, F316, A351
4	Stem	A182 F6A Class 2	316 SS, 17-4 PHSS, 410 SS
5	Seat Ring	A350 LF2+ENP	316 SS, 410 SS
6	Seat Insert	Devlon, Nylon, PEEK, RTFE	
7	Seat O-ring [2]	Low Temp HNBR /Viton AED	
8	Seat Seal	Graphite	
9	Gland	A350 LF2	316 SS, 410 SS
10	Gland Ring	A350 LF2	316 SS, 410 SS
11	Mounting Plate	A350 LF2	316 SS, 410 SS
12	Trunnion	A350 LF2	316 SS, 410 SS
13	Trunnion Bearing [2]	PTFE, Carbon Steel	PTFE, 316 SS
14	Thrust Washer	PTFE, Carbon Steel	PTFE, 316 SS
15	Gland O-ring [2]	Low Temp HNBR /Viton AED	
16	Stem O-ring [2]	Low Temp HNBR /Viton AED	
17	Gland Gasket	Graphite	
18	Adapter O-ring [2]	Low Temp HNBR /Viton AED	
19	Adapter Gasket	Graphite	
20	Mounting Plate Gasket	Graphoil	
21	Stud Bolt	A320 L7M	A193 B8
22	Hex Nut	A194 7M	A194 8
23	SHCS	A320 L7M	A193 B8
24	Anti-Static Spring	Inconel X-750	
25	Seat Spring	Inconel X-750	
26	Dowel Pin	Carbon Steel	Stainless Steel
27	Grease Fitting	316 SS	
28	Grease Fitting, BGH	316 SS	
29	Ball Check	Stainless Steel	
30	NPT Plug	316 SS	
31	Vent Fitting	316 SS	
32	Stem Key	Carbon Steel	Stainless Steel
33	Foot Plate	Carbon Steel	Stainless Steel
34	Lift Plate	Carbon Steel	Stainless Steel
35	Trunnion Dowel Pin	Carbon Steel	Stainless Steel
36	Gear Operator	Ductile Iron, Carbon Steel Worm Gear	
37	Handwheel	Carbon Steel, Ductile Iron	

Note: Materials also available in F321, F347, F51, F53, monel, inconel, incoloy and hastelloy. Metal-to-metal seated ball valve designs are available upon request.

Seal & Seat Pressure Temperature Chart

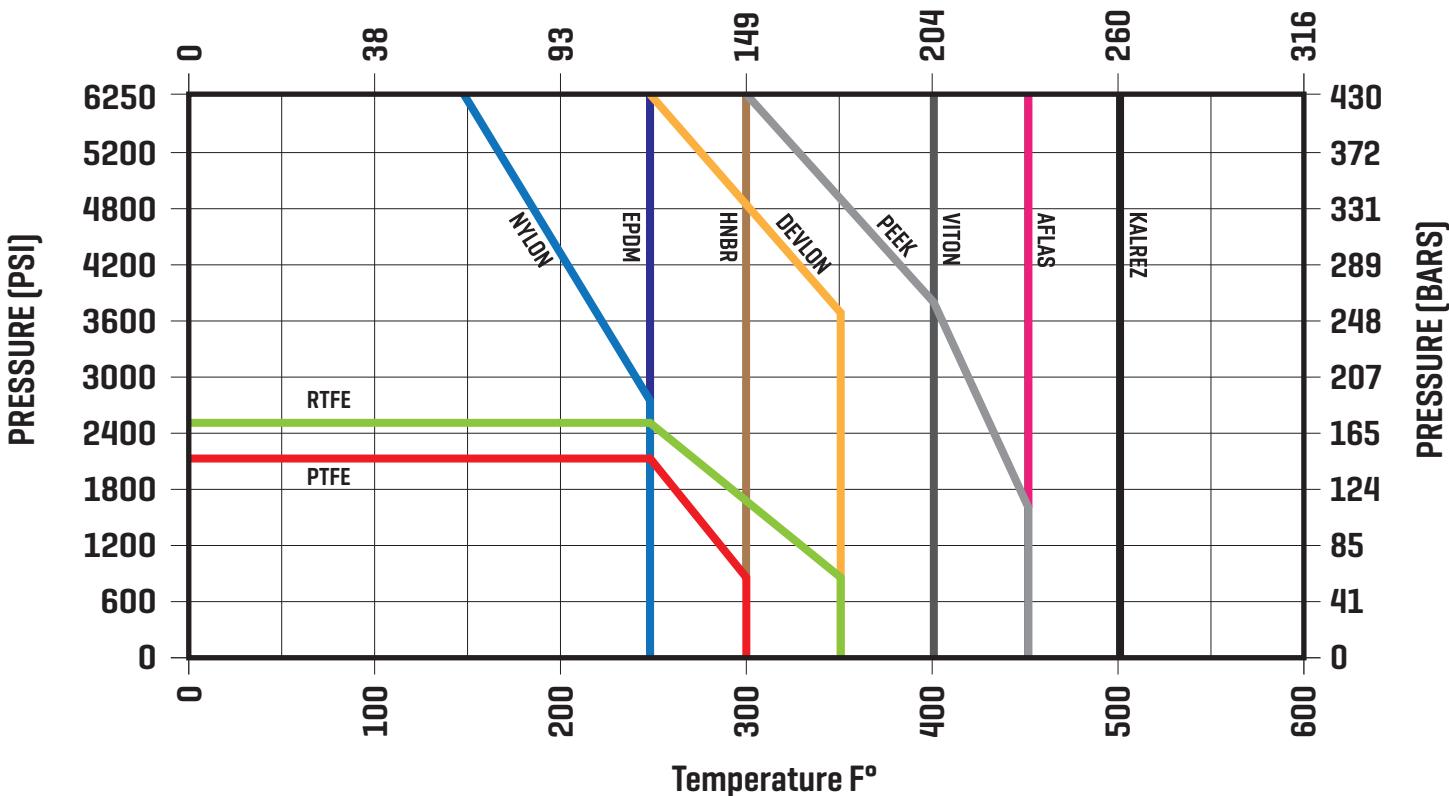
This chart depicts pressure and temperature ratings for common plastics and elastomers used in SCV Valve products.

SCV VALVE SOFT GOOD CHEMICAL COMPATIBILITY

	SEAL MATERIAL			SEAT MATERIAL			
	Viton	HNBR	Kalrez	RTFE	Nylon	Devlon	PEEK
Amines	X	X	●	●	X	X	●
Ammonia	X	X	●	●	●	●	●
Butane	●	●	●	●	●	●	●
Carbon Dioxide	●	●	●	●	●	●	●
Crude Oil	●	●	●	●	●	●	●
Ethane	●	●	●	●	X	X	●
Ethylene	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	X	●
Hydrocarbon	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●
Jet Fuel	*	*	●	●	X	X	●
Methane	●	●	●	●	●	●	●
Natural Gas	●	●	●	●	●	●	●
Nitrogen	●	●	●	●	●	●	●
Propane	●	●	●	●	●	●	●
Propylene	●	X	●	●	●	●	●

* Viton OK for JP-3/4/5/6/8/9/10. * HNBR OK for JP-3/4/5/6.

PRESSURE TEMPERATURE CHART



3-Piece Trunnion Ball Valves - API 6D

Full & Reduced Port Design Features & Applications

The SCV 3-piece forged body Trunnion Mounted ball valves are designed to meet API's highest industry standards. SCV manufactures these trunnion ball valves in bolted body construction to meet the most stringent requirements for industries such as oil, gas, gathering, transmission, distribution, storage, LNG and Petrochemical.

Seal Feature

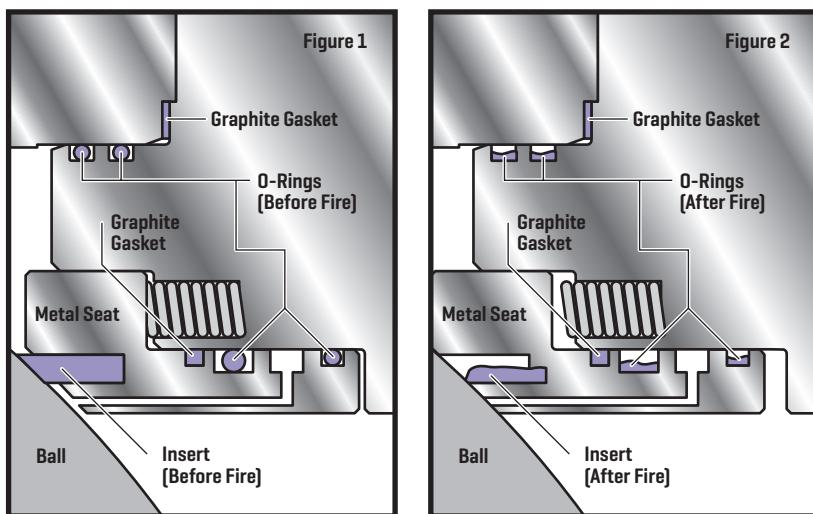
The SCV trunnion mounted ball valves are produced with spring loaded seats. This spring load keep the seats in constant contact with the ball, even in the absence of line pressure and makes a very effective seal at low line pressure. As the pressure increases the seat ring is forced onto the ball and a tight seal becomes effective. The higher the line pressure the greater the force exerted by the seat against the ball.

Self Lubrication

SCV uses seat insert material that provides self lubrication . The seat insert material choices consist of PTFE. Nylon, Devlon, Peek, or any other low friction material that may be required to meet the application. The self-lubrication insert materials help support the predictable operating torque.

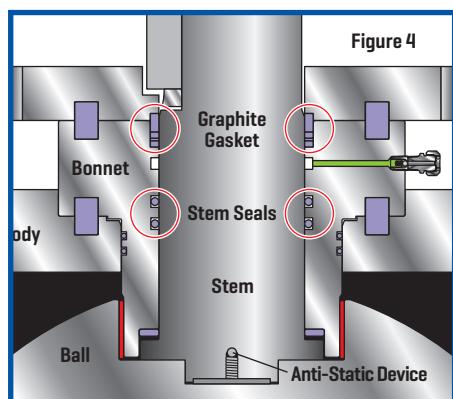
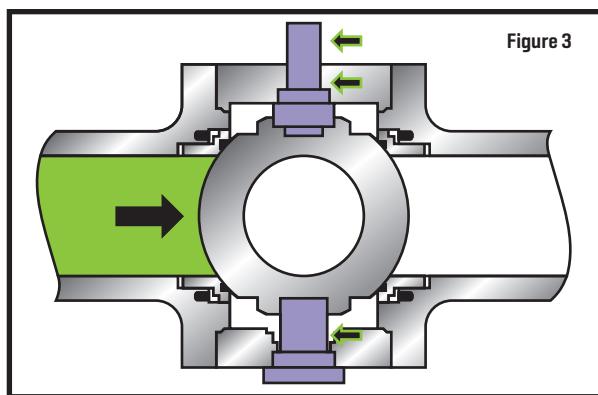
Fire Safe Construction with Secondary Metal Seat

SCV ball valves have been fire tested and can be supplied to API 6FA and API 607. The soft seat inserts, irrespective of their materials, will possibly fail when subjected to fire conditions. SCV provides a fire-safe design which may substantially prevent leakages through seals when damaged by fire. The function of the seats before and after the fire test are as shown. If the seat inserts are destroyed, a metal to metal seal is formed between seat and ball. The seat to body graphite seals, graphite stem packing, and graphite gasket end closures are designed to resist high temperature and will remain undamaged. **[Figures 1 & 2]**



Trunnion Mounting

Trunnion mounted TEFILON coated bearings on the stems absorb the thrust from line pressure, preventing excess friction between the ball and seats, so even at full rated working pressure, operating torque stays low. **[Figure 3]**



Anti-Static Device

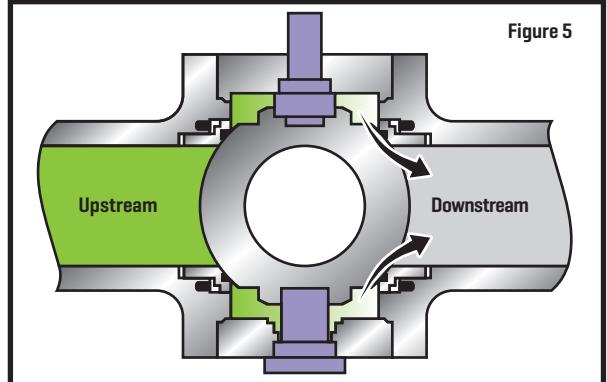
The ball/spring assembly provided at the stem allows the static charges to be discharged to the piping. In this way, an electrostatic charging of the ball is eliminated. **[Figure 4]**

Blow Out Proof Stem with Stem Seals

The stem has been designed with a lower flange. The valve body bonnet retains the stem in place and prevent any possible blowout. The stem is sealed with 2 orings, this feature allows for the stem packing to be replaced while the valve is in line and under pressure. **[Figure 4]**

Single Piston Effect (SPE) - Self Relieving Seats

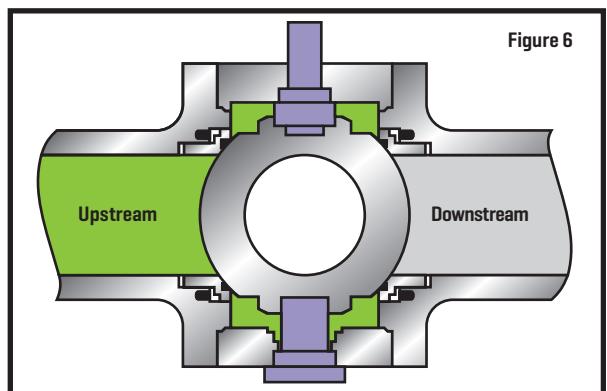
With the ball in the closed position, media pressure builds on the upstream side of the ball. This pressure forces the upstream seat ring against the ball for a tight seal. With only spring pressure sealing the downstream side, excess body cavity pressure pushes the downstream seat rings away from the ball relieving overpressure in the body cavity. This seat arrangement meets **Block & Bleed** requirements. Single Piston Effect (SPE) seat rings are "self-relieving." **[Figure 5]**



Double Piston Effect (DPE)

With the ball in the closed position and pressure from a single source, in the event the upstream seat fails, pressure will increase in the body cavity. The cavity pressure activates the downstream seat's double piston effect creating a second seal on the ball. This seat arrangement meets **Double Isolation & Bleed** requirements. **[Figure 6]**

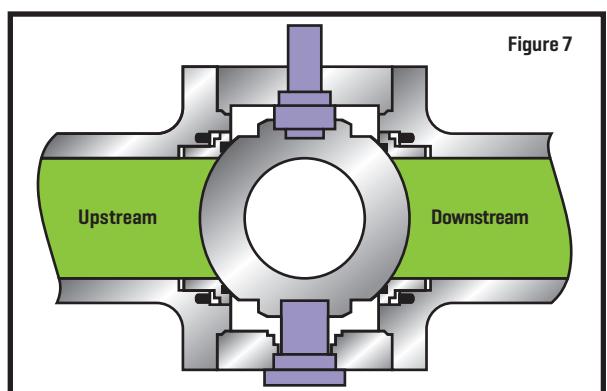
Definition of Double Isolation and Bleed (DIB): A single valve with two seating surfaces, each of which, in the closed position, provides a seal against pressure from a single source, with a means of venting/bleeding the cavity between the seating surfaces. This feature can be provided in one direction or both directions.



Double Block and Bleed (DBB)

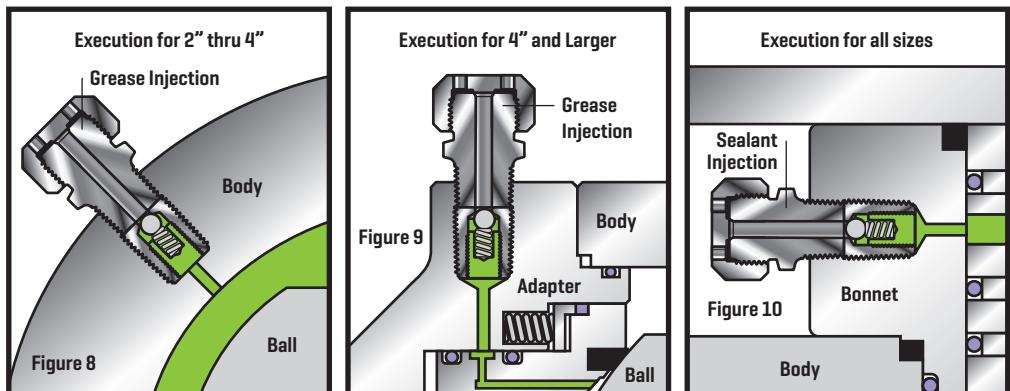
The Double Block and Bleed feature is offered with both seat ring configurations (SPE & DPE). When the ball is closed, pressure is "blocked" from the body cavity by the pressure activated seats. The body cavity can then be vented/bled. **[Figure 7]**

Definition of Double Block and Bleed: A single valve with two seating surfaces that, in the closed position, provides a seal against pressure from both ends of the valve with a means of venting/bleeding the cavity between the seating surfaces.



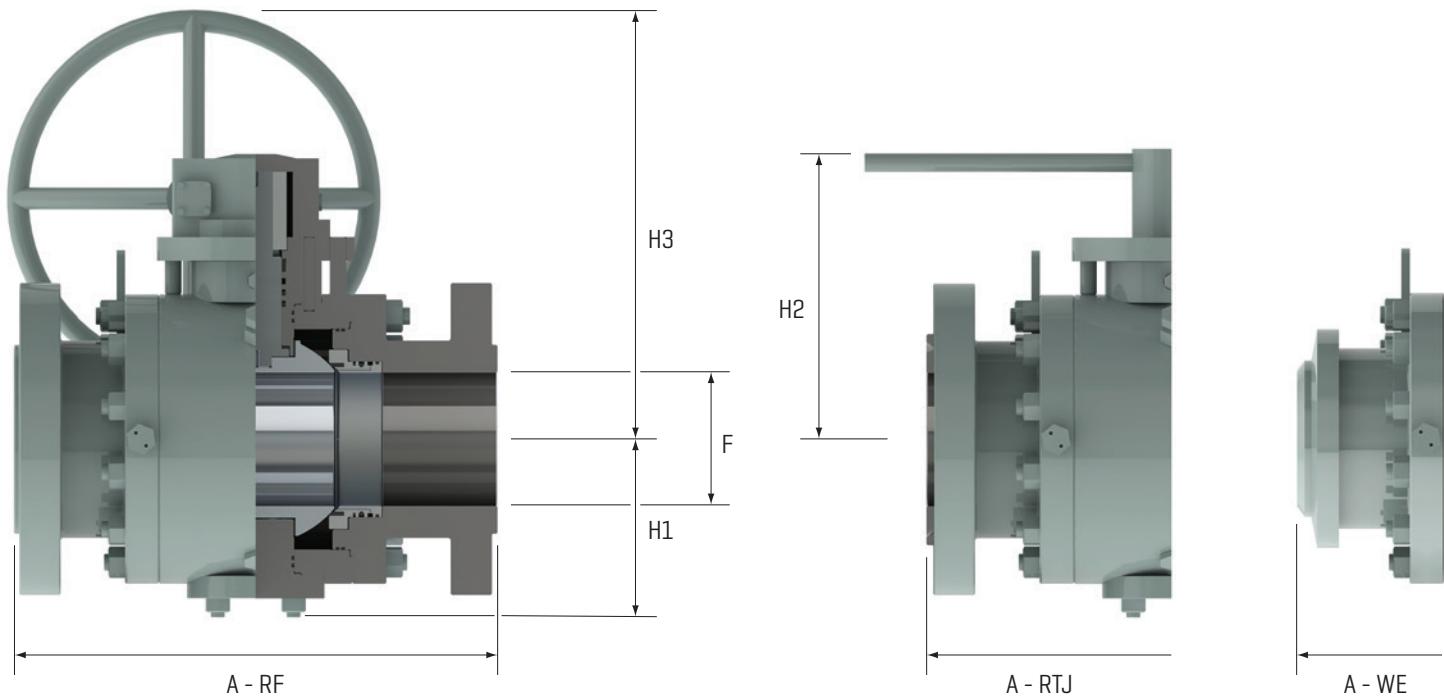
Sealant Fitting

Sealant lubrication fittings are standard on this SCV design. In the event of seat insert or stem seal damage, leakage can occur. Emergency sealant/grease injection can save the integrity of the valve by incorporating a seal around the stem or between the seat and the ball until properly serviced. These fittings also act as a lubrication port for regular maintenance. **[Figures 8, 9 & 10]**



3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 2" - 42" Class: 150



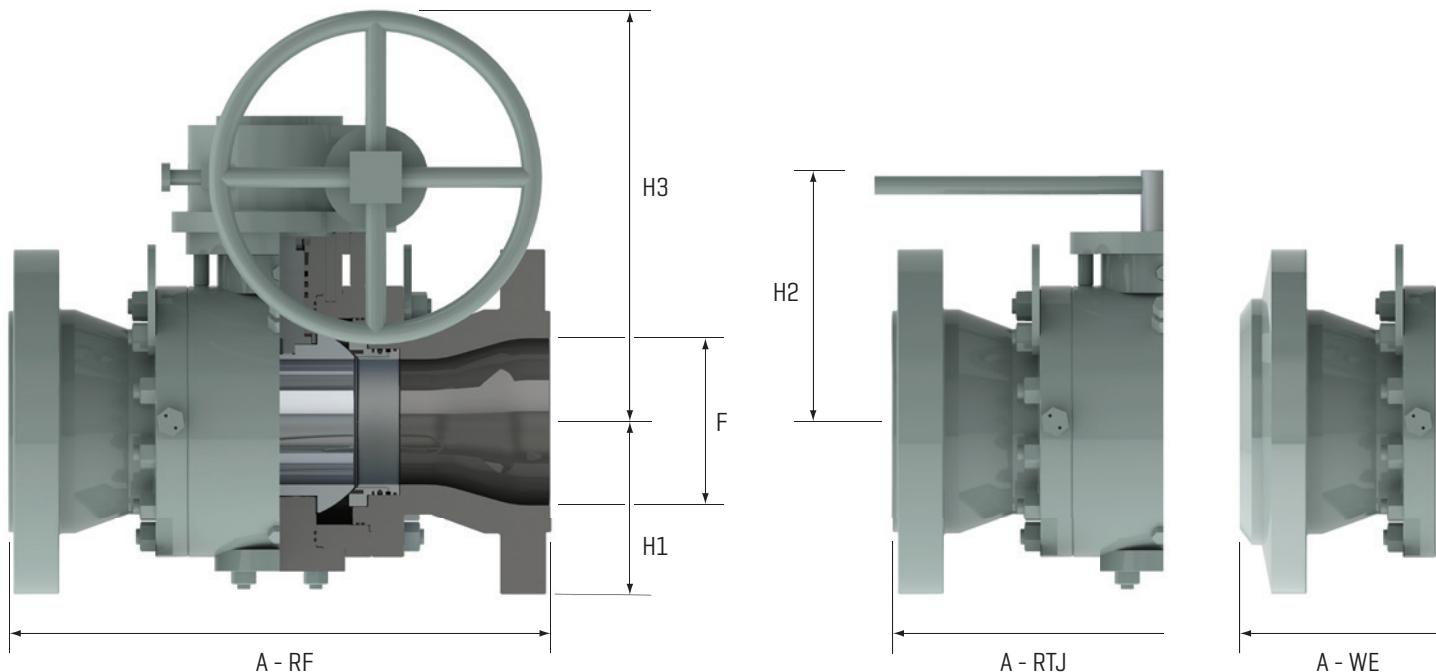
Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	
IN 2*	2.00	7.00	/		8.50	3.85	6.82	11.93		46
MM 50	51	178	/		216	98	173	303	●	21
IN 3*	3.00	8.00	/		11.125	4.73	7.72	12.83		77
MM 80	76	203	/		283	120	196	326	●	35
IN 4*	4.00	9.00	/		12.00	5.80	8.93	14.00	●	119
MM 100	102	229	/		305	147	227	356		54
IN 6	6.00	15.50	/		18.00	7.68	/	19.36	●	336
MM 150	152	394	/		547	195	/	492		152
IN 8	8.00	18.00	/		20.50	9.55	/	20.40		545
MM 200	203	457	/		521	234	/	518	●	247
IN 10	10.00	21.00	/		22.00	11.48	/	25.11		897
MM 250	254	533	/		559	293	/	638	●	407
IN 12	12.00	24.00	/		25.00	13.05	/	27.20		1338
MM 300	305	610	/		635	331	/	691	●	607
IN 14	13.25	27.00	/		30.00	14.08	/	31.45	●	1787
MM 350	337	686	/		762	358	/	799		811
IN 16	15.25	30.00	/		33.00	14.69	/	33.28		2500
MM 400	387	762	/		838	373	/	845	●	1134
IN 18	17.25	34.00	/		36.00	16.52	/	36.55		3508
MM 450	438	864	/		914	420	/	928	●	1591
IN 20	19.25	36.00	/		39.00	17.88	/	37.64		4528
MM 500	489	914	/		991	454	/	956		2054
IN 24	23.25	42.00	/		45.00	21.19	/	37.35		6821
MM 600	591	1067	/		1143	538	/	949	●	3094
IN 26	25.00	45.00	/		49.00	34.83	/	55.91		10476.4
MM 650	635	1143	/		1247	885	/	1420	●	4762
IN 28	27.00	49.00	/		53.00	36.40	/	58.36		11974.6
MM 700	686	1247	/		1346	925	/	1482	●	5443
IN 30	29.00	51.00	/		55.00	38.77	/	61.95		14966.6
MM 800	737	1295	/		1397	985	/	1574	●	6803
IN 36	34.50	60.00	/		68.00	44.54	/	70.10		24945.8
MM 900	876	1524	/		1727	1131	/	1781	●	11339
IN 42	34.50	73.00	/		82.00	44.54	/	70.10		24945.8
MM 1050	876	1854	/		2083	1131	/	1781	●	11339

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice.
Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 42" Class: 150



Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	
IN 3 x 2*	2.00	8.00	/	11.125	5.22	7.28	9.68			48.4	33
MM 80 x 50	51	203	/	283	133	185	246	●		22	15
IN 4 x 3*	3.00	9.00	/	12.00	6.34	9.47	11.87			88	74.8
MM 100 x 80	76	229	/	305	161	241	301	●		40	34
IN 6 x 4*	4.00	15.50	/	18.00	7.28	10.34	12.74	●		149.9	118.8
MM 150 x 100	102	394	/	457	185	263	324			68	54
IN 8 x 6	6.00	18.00	/	20.50	9.47	13.29	15.59	●		598.4	497.2
MM 200 x 150	152	457	/	521	541	338	396			272	226
IN 10 x 8	8.00	21.00	/	22.00	11.16	15.90	18.30	●		847	748
MM 250 x 200	203	533	/	559	283	404	465			385	340
IN 12 x 10	10.00	24.00	/	25.00	13.23	17.84	20.98	●		1496	1346.4
MM 300 x 250	254	610	/	635	336	453	533			680	612
IN 14 x 12	12.00	27.00	/	30.00	14.98	20.00	23.04	●		1845.8	1645.6
MM 350 x 300	305	686	/	762	380	508	585	●		839	748
IN 16 x 14	13.25	30.00	/	33.00	16.60	22.30	25.45		●	2593.8	2343
MM 400 x 350	337	762	/	838	422	566	646		●	1179	1065
IN 18 x 16	15.25	34.00	/	36.00	18.39	24.05	28.05		●	3440.8	3093.2
MM 450 x 400	387	864	/	914	467	611	712		●	1564	1406
IN 20 x 18	17.25	36.00	/	39.00	20.05	27.05	31.10		●	7139	4439.6
MM 500 x 450	438	914	/	991	509	687	790		●	3245	2018
IN 24 x 20	19.25	42.00	/	45.00	21.90	28.80	33.90		●	5588	5137
MM 600 x 500	489	1067	/	1143	556	732	861		●	2540	2335
IN 30 x 24	23.25	51.00	/	55.00	21.06	/	26.1		●	7562	6731
MM 600 x	591	1295	/	1397	535	/	663		●	3430	3053
IN 36 x 30	28.97	60.00	/	68.03	27.75	/	30.59		●	14220	12655
MM 900 x 800	736	1524	/	1728	705	/	777		●	6450	5740
IN 42 x 36	34.48	73.00	/	82.00	37.00	/	43.03		●	30820	27430
MM 1050 x 900	876	1854	/	2083	940	/	1093		●	13980	12442

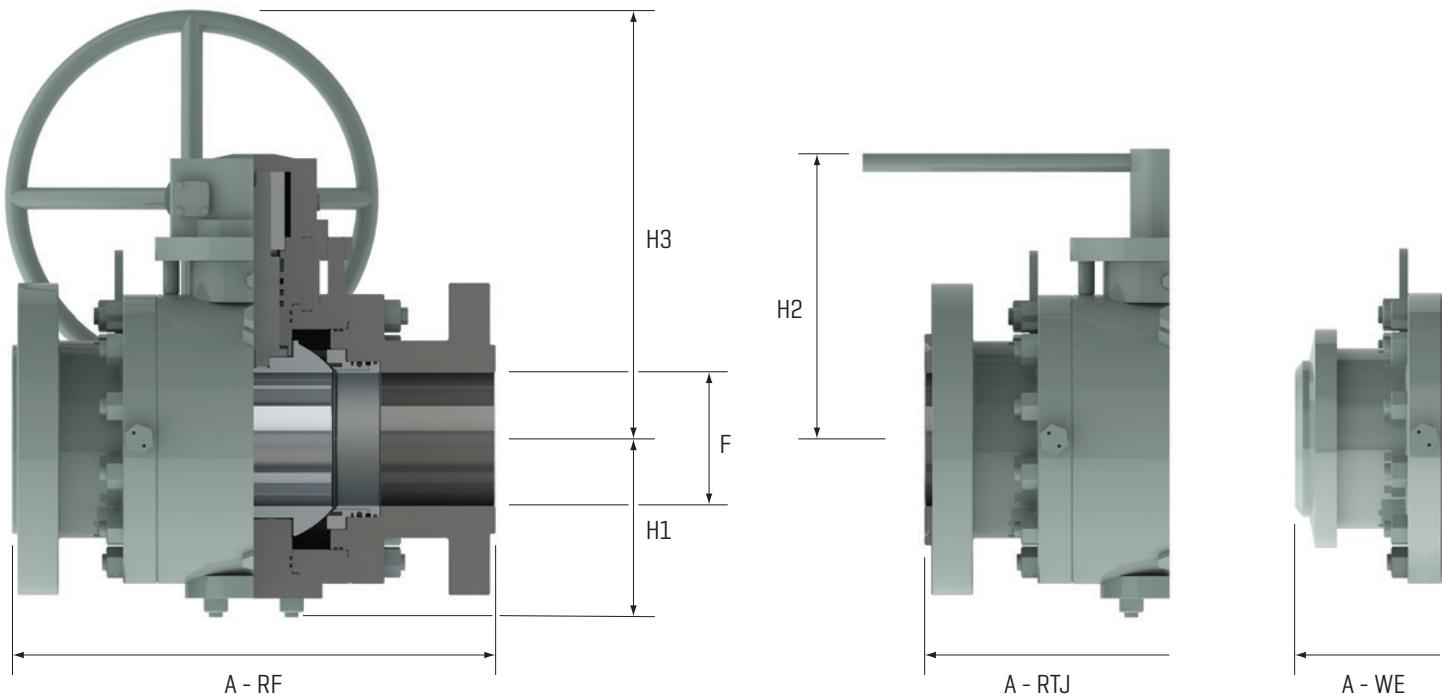
* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

CLASS 150

3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 2" - 42" Class: 300



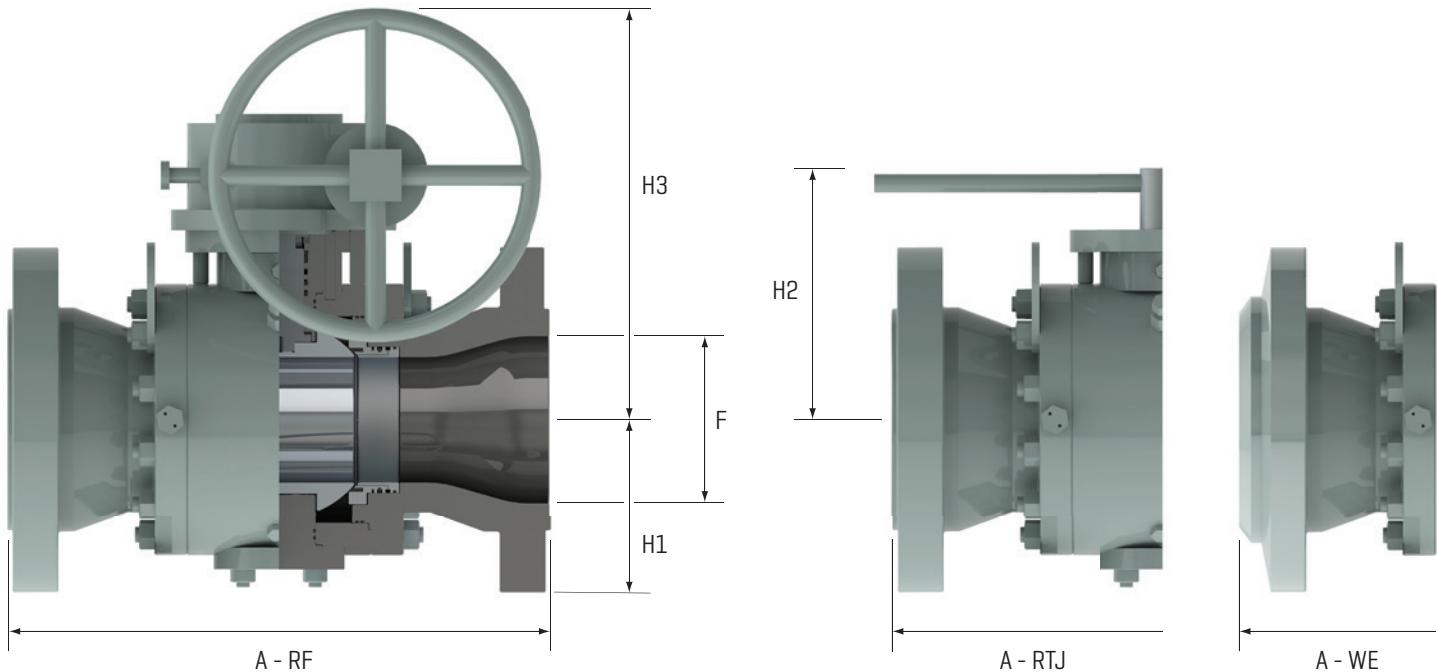
CLASS 300	Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	LBS/KG
	IN 2*	2.00	8.50	/	8.50	3.85	6.82	11.93			53
	MM 50	51	216	/	216	98	/	303	●		24
	IN 3*	3.00	11.12	/	11.125	4.73	7.75	12.83			100
	MM 80	76	283	/	283	120	/	326	●		45
	IN 4*	4.00	12.00	/	12.00	5.80	8.93	14.00	●		156
	MM 100	102	305	/	305	147	/	356			71
	IN 6	6.00	15.88	/	15.88	8.18	/	19.36	●		372
	MM 150	152	403	/	403	208	/	492			169
	IN 8	8.00	19.75	/	20.50	9.46	/	20.40			619
	MM 200	203	502	/	521	240	/	518	●		281
	IN 10	10.00	22.38	/	22.00	11.48	/	25.49	●		1005
	MM 250	254	568	/	559	292	/	647	●		456
	IN 12	12.00	25.50	/	25.00	13.05	/	30.20	●		1475
	MM 300	305	648	/	635	331	/	767	●		669
	IN 14	13.25	30.00	/	30.00	14.08	/	31.45	●		2075
	MM 350	337	762	/	762	358	/	799			941
	IN 16	15.25	33.00	/	33.00	14.81	/	33.28		●	2885
	MM 400	387	838	/	838	376	/	845			1309
	IN 18	17.25	36.00	/	36.00	16.88	/	36.56		●	4150
	MM 450	438	914	/	914	429	/	929			1882
	IN 20	19.25	39.00	/	39.00	18.00	/	37.65		●	5004
	MM 500	489	991	/	991	457	/	956			2270
	IN 24	23.25	45.00	/	45.00	21.50	/	41.77			8072
	MM 600	591	1143	/	1143	546	/	1061	●		3661
	IN 26	25.00	49.00	/	49.00	34.83	50.00	55.91			11675.4
	MM 650	635	1245	/	1245	885	1270	1420	●		5307
	IN 28	27.00	53.00	/	53.00	36.40	52.45	58.36		●	13970
	MM 700	686	1346	/	1346	925	1332	1482	●		6350
	IN 30	29.00	55.00	/	55.00	38.77	55.75	61.95		●	16964.2
	MM 800	737	1397	/	1397	985	1416	1574			7711
	IN 36	34.50	68.00	/	68.00	44.54	63.90	70.10		●	25944.6
	MM 900	876	1727	/	1727	1727	1823	1781	●		11793
	IN 42	40.23	82.00	/	82.00	37.36	/	43.26		●	35935
	MM 1050	1022	2083	/	2083	949	/	1099		●	16300

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice.
Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 42" Class: 300



Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT		
IN 3 x 2*	2.00	11.125	11.75	11.125	5.22	7.28	9.68			68.2	52.8
MM 80 x 50	51	283	299	283	133	185	279	●		31	24
IN 4 x 3*	3.00	12.00	12.625	12.00	6.34	9.47	11.87			118.8	88
MM 100 x 80	76	305	321	305	161	241	301	●		54	40
IN 6 x 4	4.00	15.875	16.50	15.88	7.28	10.34	12.74	●		217.8	178.2
MM 150 x 100	102	403	419	403	185	263	324			99	81
IN 8 x 6	6.00	19.75	20.375	19.75	9.47	13.29	15.59	●		646.8	558.8
MM 200 x 150	152	502	518	502	241	338	396			294	254
IN 10 x 8	8.00	22.375	23.00	22.00	11.16	15.90	18.30	●		897.6	776.6
MM 250 x 200	203	568	584	559	283	404	465			408	353
IN 12 x 10	10.00	25.50	26.125	25.00	13.23	17.84	20.98	●		1645.6	1445.4
MM 300 x 250	254	648	664	635	336	453	533			748	657
IN 14 x 12	12.00	30.00	30.625	30.00	14.98	20.00	23.04	●		1995.4	1795.2
MM 350 x 300	305	762	778	762	380	508	585	●		907	816
IN 16 x 14	13.25	33.00	33.625	33.00	16.60	22.30	25.45		●	2893	2644.4
MM 400 x 350	337	838	854	838	422	566	646			1315	1202
IN 18 x 16	15.25	36.00	36.625	36.00	18.39	24.05	28.05		●	3940.2	3542
MM 450 x 400	387	914	930	914	467	611	713			1791	1610
IN 20 x 18	17.25	39.00	39.75	39.00	20.05	27.05	31.10		●	5288.8	4789.4
MM 500 x 450	438	991	1010	991	509	687	790		●	2404	2177
IN 24 x 20	19.25	45.00	45.875	43.00	21.90	28.80	33.90		●	5915.8	5337.2
MM 600 x 500	489	1143	1165	1092	556	732	861			2698	2426
IN 30 X 24	23.25	55	55.98	55	23.7	/	26.53		●	10207	9187
MM 800 x 600	591	1397	1422	1397	602	/	674			4630	4167
IN 36 X 30	28.97	68.00	69.13	68.00	28.3	/	84.09		●	18365	16345
MM 900 x 800	736	1727	1756	1727	719	/	866		●	8330	7414
IN 42 X 36	34.48	82.00	/	82.00	37.36	/	43.26		●	35935	32701
MM 1050 x 900	876	2083	/	2083	949	/	1099		●	16300	14833

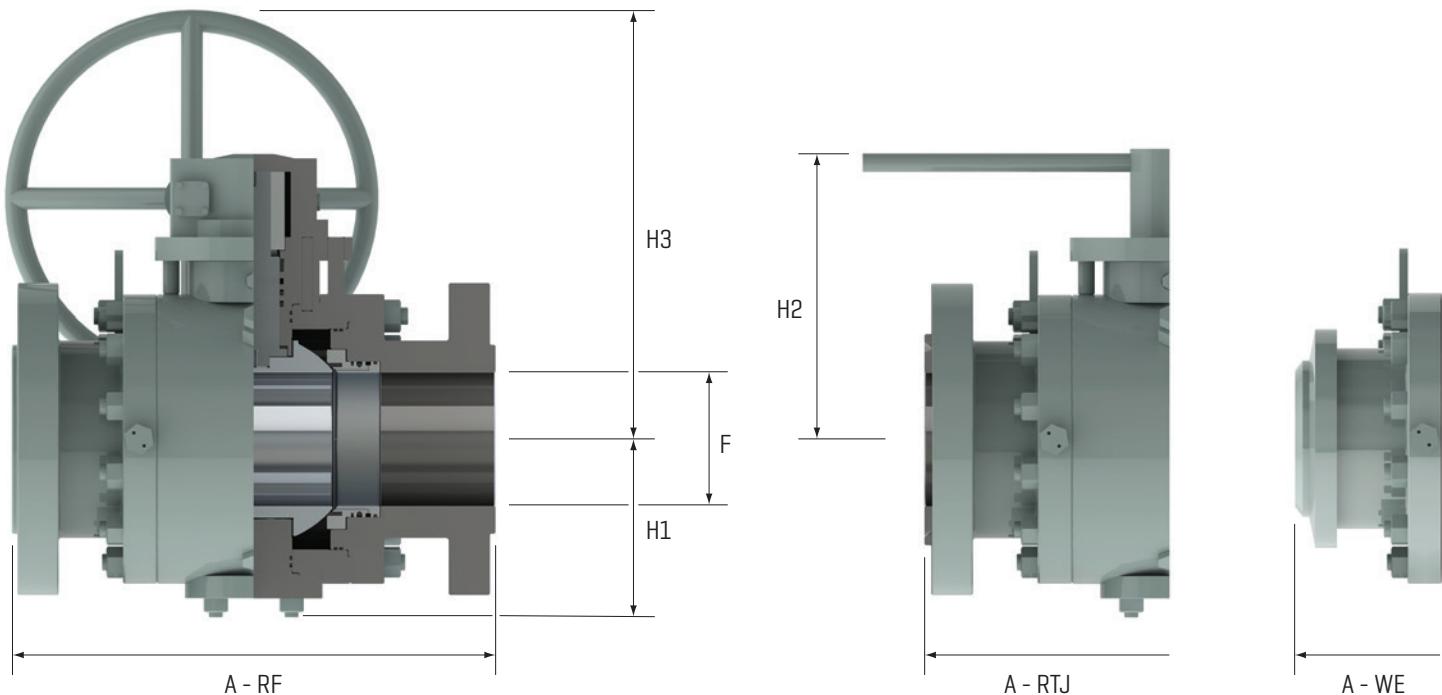
* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

CLASS 300

3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 2" - 42" Class: 600



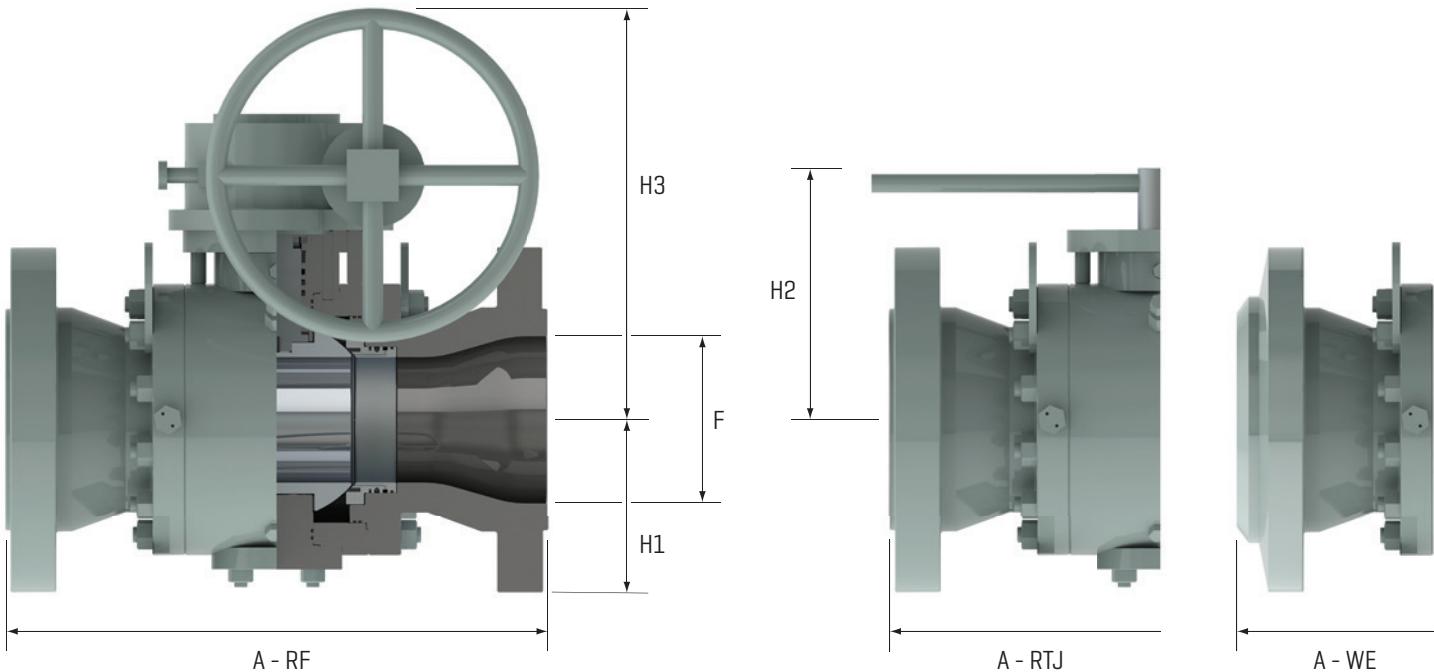
CLASS 600	Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	LBS/KG
	IN 2*	2.00	11.50	11.62	11.50	4.11	6.82	11.93			73
	MM 50	51	292	295	292	104	173	303	●		33
	IN 3*	3.00	14.00	14.125	14.00	4.98	8.45	13.52			137
	MM 80	76	356	359	356	126	215	343	●		62
	IN 4*	4.00	17.00	17.12	17.00	6.79	9.67	14.42	●		255
	MM 100	102	432	435	432	172	246	366			116
	IN 6	6.00	22.00	22.12	22.00	8.51	/	19.70	●		541
	MM 150	152	559	562	559	216	/	500			245
	IN 8	8.00	26.00	26.12	26.00	9.88	/	24.41			836
	MM 200	203	660	663	660	251	/	620	●		379
	IN 10	10.00	31.00	31.12	31.00	11.85	/	26.75			1494
	MM 250	254	787	790	787	301	/	679	●		678
	IN 12	12.00	33.00	33.12	33.00	13.70	/	31.75	●		2191
	MM 300	305	838	841	838	348	/	806			994
	IN 14	13.25	35.00	35.12	35.00	14.38	/	33.12		●	2765
	MM 350	337	889	892	889	365	/	841			1254
	IN 16	15.25	39.00	39.12	39.00	15.50	/	36.12		●	3968
	MM 400	387	991	994	991	394	/	917			1800
	IN 18	17.25	43.00	43.12	43.00	17.69	/	39.14		●	5596
	MM 450	438	1092	1095	1092	449	/	994			2538
	IN 20	19.25	47.00	47.25	47.00	18.87	/	40.78		●	6899
	MM 500	489	1194	1200	1194	479	/	1036			3129
	IN 24	23.25	55.00	55.38	55.00	22.50	/	47.84			11377
	MM 600	591	1397	1407	1397	572	/	1215			5161
	IN 26	25.00	57.00	57.50	57.00	31.74	40.74	45.64			13670.8
	MM 650	635	1448	1461	1448	806	1035	1159		●	6214
	IN 28	27.00	61.00	61.50	61.00	38.85	44.76	50.67		●	22451
	MM 700	686	1549	1562	1549	987	1137	1287		●	10205
	IN 30	29.00	65.00	65.50	65.00	42.00	48.20	54.40		●	23949.2
	MM 750	737	1651	1664	1651	1067	1224	1382			10886
	IN 36	34.50	82.00	82.625	82.00	47.34	53.54	59.74			37620
	MM 900	876	2083	2099	2083	1202	1360	1517		●	17100
	IN 42	40.23	96.00	/	96.00	38.46	/	53.3		●	47598
	MM 1050	1022	2438	/	2438	977	/	1354			21590

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice.
Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 42" Class: 600



CLASS 600

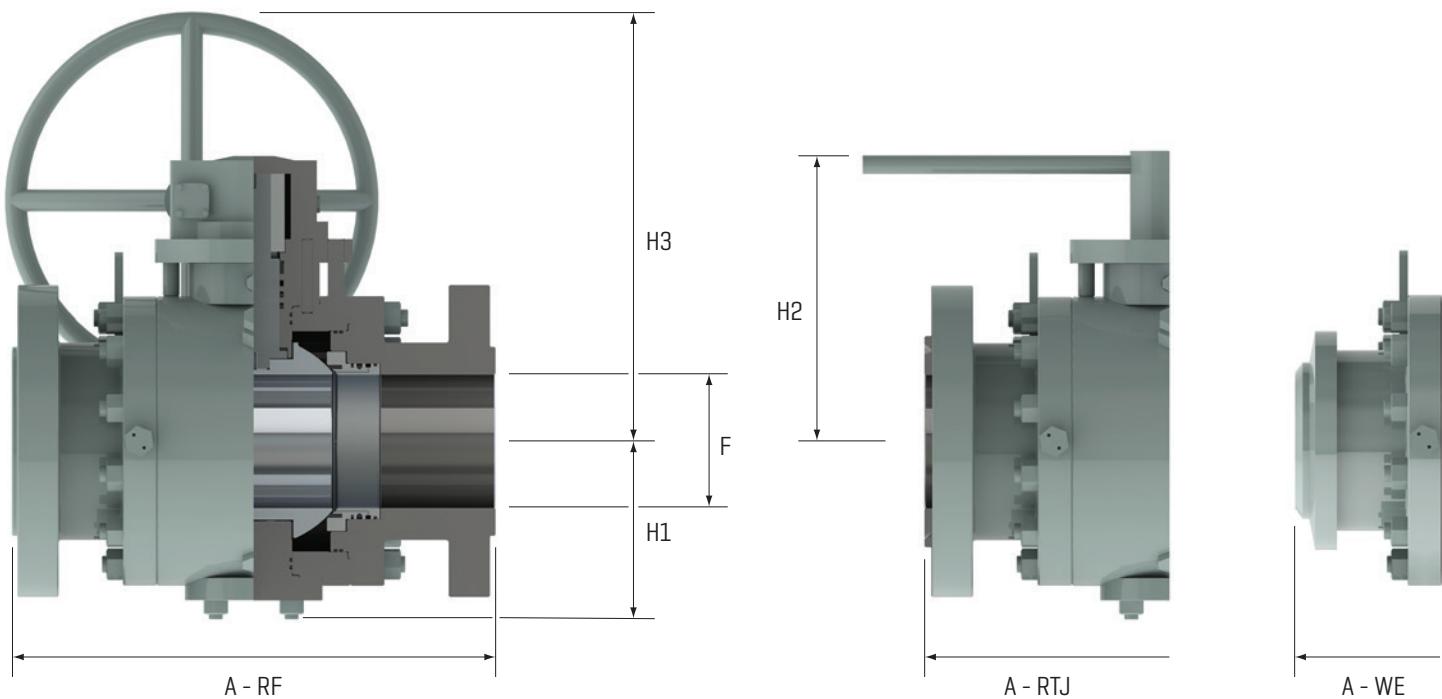
Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	
IN 3 x 2*	2.00	14.00	14.125	14.00	5.22	7.28	9.68			79.2	63.8
MM 80 x 50	51	356	359	356	133	185	279	●		36	29
IN 4 x 3*	3.00	17.00	17.125	17.00	6.34	9.47	11.87			138.6	114.4
MM 100 x 80	76	432	435	432	161	241	301	●		63	52
IN 6 x 4	4.00	22.00	22.125	22.00	7.28	10.34	12.74	●		299.2	248.6
MM 150 x 100	102	559	562	559	185	263	324			136	113
IN 8 x 6	6.00	26.00	26.125	26.00	9.47	13.29	15.59	●		697.4	578.6
MM 200 x 150	152	660	664	660	241	338	396			317	263
IN 10 x 8	8.00	31.00	31.125	31.00	11.16	15.90	18.30	●		1346.4	1075.8
MM 250 x 200	203	787	791	787	283	404	465			612	489
IN 12 x 10	10.00	33.00	33.125	33.00	13.23	17.84	20.98	●		1894.2	1535.6
MM 300 x 250	254	838	841	838	336	453	533			861	698
IN 14 x 12	12.00	35.00	35.125	35.00	14.98	20.00	23.04		●	2593.8	2145
MM 350 x 300	305	889	892	889	380	508	585		●	1179	975
IN 16 x 14	13.25	39.00	39.125	39.00	16.60	22.30	25.45		●	3291.2	2743.4
MM 400 x 350	337	991	994	991	422	566	646	●		1496	1247
IN 18 x 16	15.25	43.00	43.125	43.00	18.39	24.05	28.05		●	5088.6	4180
MM 450 x 400	387	1092	1095	1092	467	611	713		●	2313	1900
IN 20 x 18	17.25	47.00	47.25	47.00	20.05	27.05	31.10		●	6536.2	5337.2
MM 500 x 450	438	1194	1200	1194	509	687	790		●	2971	2426
IN 24 x 20	19.25	55.00	55.325	55.00	21.90	28.80	33.90		●	7383.2	6036.8
MM 600 x 500	489	1397	1405	1397	556	732	861		●	3356	2744
IN 30 X 24	23.25	65.00	65.50	65.00	24.09	/	29.88		●	13030	11987
MM 800 x 600	591	1651	1664	1651	612	/	759		●	5910	5437
IN 36 X 30	28.97	82.00	82.625	82.00	28.58	/	34.92		●	23281	21186
MM 900 x 800	736	2083	2098	2083	726	/	887		●	10560	9610
IN 42 X 36	34.48	96.00	/	96.00	38.46	/	53.3		●	47598	42362
MM 1050 x 900	876	2438	/	2438	977	/	1354		●	21590	19215

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 2" - 36" Class: 900



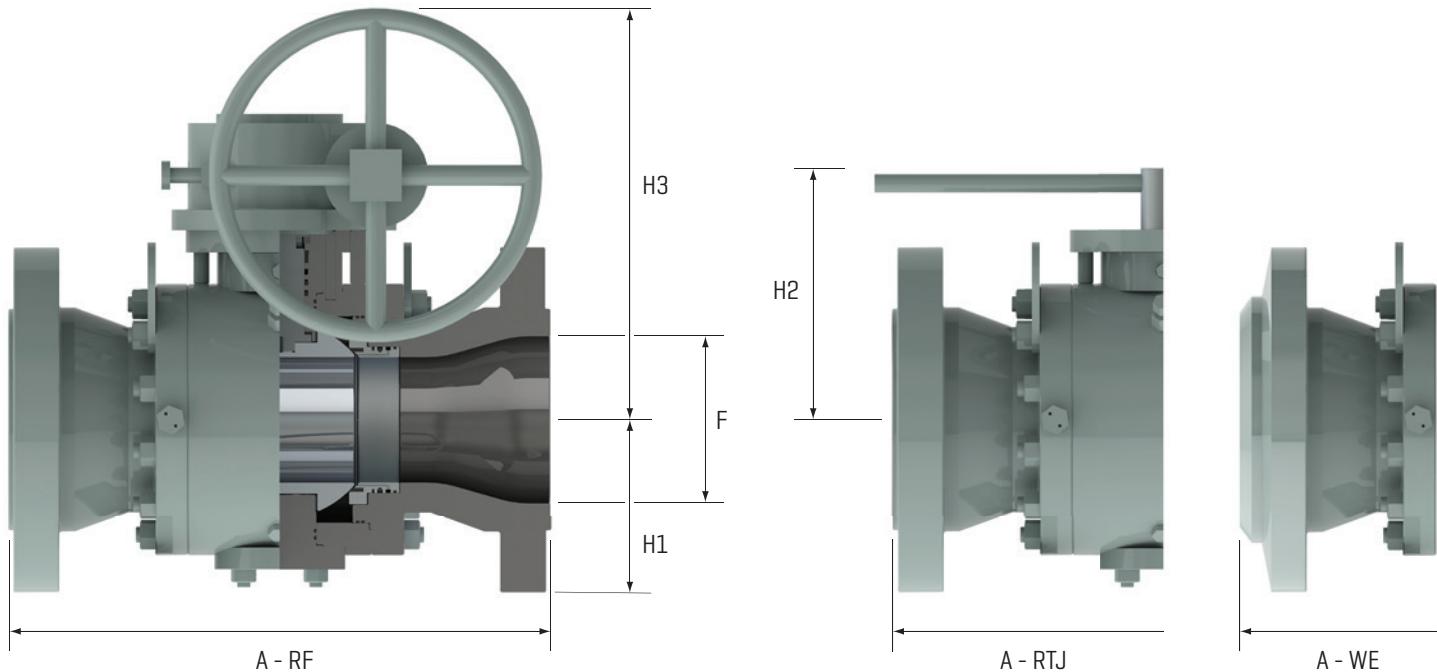
Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	
IN 2*	2.00	2.00	14.50	14.625	14.50					
MM 50	51	51	368	372	368				●	
IN 3*	3.00	3.00	15.00	15.125	15.00				●	
MM 80	76	76	381	384	381				●	
IN 4	4.00	4.00	18.00	18.125	18.00				●	
MM 100	102	102	457	460	457					
IN 6	6.00	6.00	24.00	24.125	24.00				●	
MM 150	152	152	610	613	610					
IN 8	8.00	8.00	29.00	29.125	29.00				●	
MM 200	203	203	737	740	737					
IN 10	10.00	10.00	33.00	33.125	33.00				●	
MM 250	254	254	838	841	838					
IN 12	12.00	12.00	38.00	38.125	38.00				●	
MM 300	305	305	965	968	965					
IN 14	13.75	13.75	40.50	40.875	40.50				●	
MM 350	337	337	1029	1038	1029					
IN 16	14.75	14.75	44.50	44.875	44.50				●	
MM 400	387	387	1130	1140	1130				●	
IN 18	15.25	15.25	48.00	48.50	48.00				●	
MM 450	438	438	1219	1232	1219					
IN 20	19.25	19.25	52.00	52.50	52.00				●	
MM 500	489	489	1321	1334	1321					
IN 24	22.50	22.50	61.00	61.75	61.00				●	
MM 600	591	591	1549	1569	1549					
IN 30	28.11	28.11	74.00	74.88	74.00	31.06	/	41.18		
MM 750	714	714	1880	1902	1880	789	/	1046		12440

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 42" Class: 900



Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	
IN 3 x 2*	2.00	15.00	15.125	15.00	5.22	8.06	11.64			138.6	107.8
MM 80 x 50	51	381	384	381	133	205	296	●		63	49
IN 4 x 3*	3.00	18.00	18.125	18.00	6.34	10.25	13.84			217.8	173.8
MM 100 x 80	76	457	460	457	161	260	352	●		99	79
IN 6 x 4	4.00	24.00	24.125	24.00	7.28	11.12	14.70	●		437.8	347.6
MM 150 x 100	102	610	613	610	185	283	373			199	158
IN 8 x 6	6.00	29.00	29.125	29.00	9.47	14.07	17.65	●		897.6	717.2
MM 200 x 150	152	737	740	737	241	357	448			408	326
IN 10 x 8	8.00	33.00	33.125	33.00	11.16	16.68	20.26	●		1595	1276
MM 250 x 200	203	838	841	838	283	424	515			725	580
IN 12 x 10	10.00	38.00	38.125	38.00	13.23	18.62	22.94	●		2295	1846
MM 300 x 250	254	965	968	965	336	473	583			1043	839
IN 14 x 12	12.00	40.50	40.875	40.50	14.98	20.77	25.00		●	3392	2743
MM 350 x 300	305	1029	1038	1029	380	528	635		●	1542	1247
IN 16 x 14	12.75	44.50	44.875	44.50	16.60	23.10	27.41		●	3991	3192
MM 400 x 350	337	1130	1140	1130	422	587	696		●	1814	1451
IN 18 x 16	14.75	48.00	48.50	48.00	18.39	24.83	30.01		●	5438	4239
MM 450 x 400	387	1219	1231	1219	467	631	763		●	2472	1927
IN 20 x 18	16.75	52.00	52.50	52.00	18.75	26.53	31.75		●	7031	5636
MM 500 x 450	438	1321	1334	1321	509	674	807		●	3878	3107
IN 24 x 20	18.625	61.00	61.75	61.00	21.90	29.58	35.86		●	11436	9130
MM 600 x 500	489	1549	1569	1549	556	751	911			5198	4150
IN 30 X 24	22.48	74.00	74.88	74.00	27.08	/	32.87			18232	16773
MM 750 x 600	571	1880	1902	1880	688	/	835	●		8270	7608
IN 36 X 30	28.11	90.00	91.14	90.00	35.43	/	46.1		●	44423	40426
MM 900 x 750	714	2286	2315	2286	900	/	1171		●	20150	18337
IN 42 X 36	33.74	105.00	106.14	105.00	41.73	/	48.03		●	52073	47388
MM 1050 x 900	857	2667	2696	2667	1060	/	1220		●	23620	21495

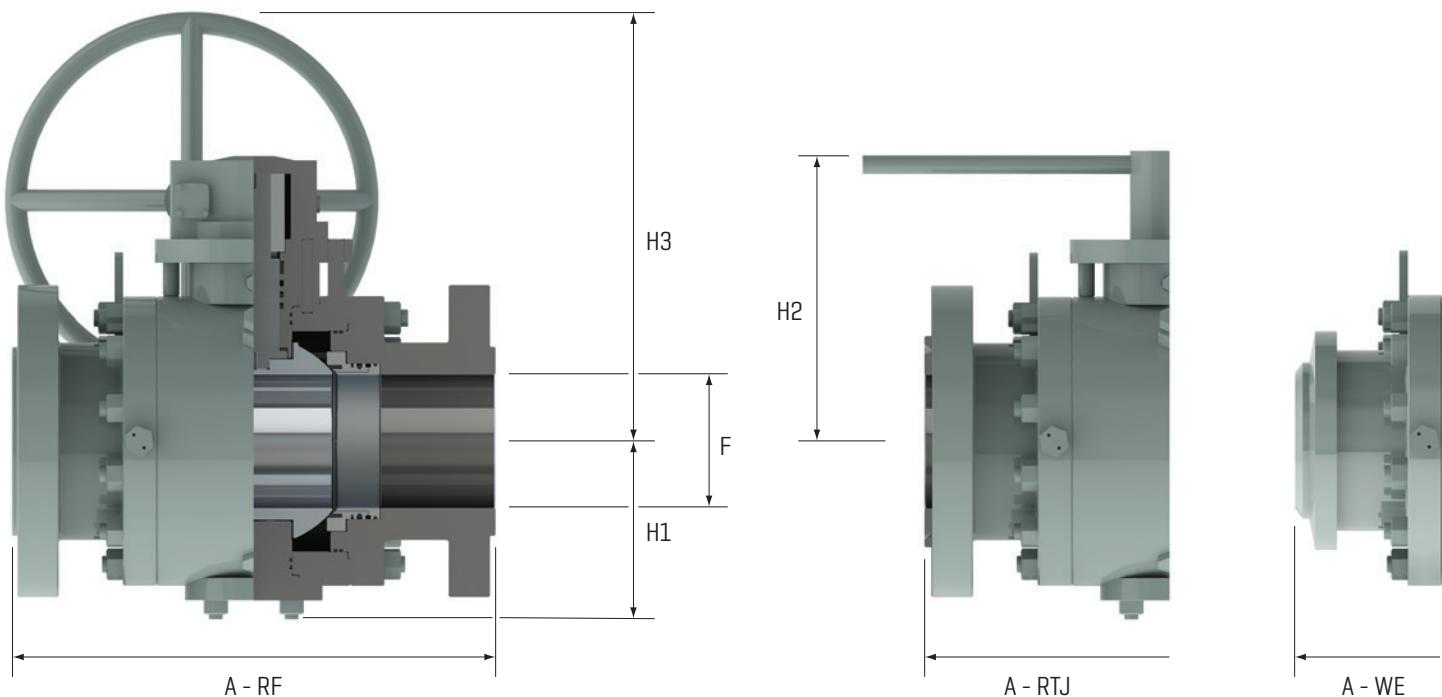
* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

CLASS 900

3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 1" - 24" Class: 1500



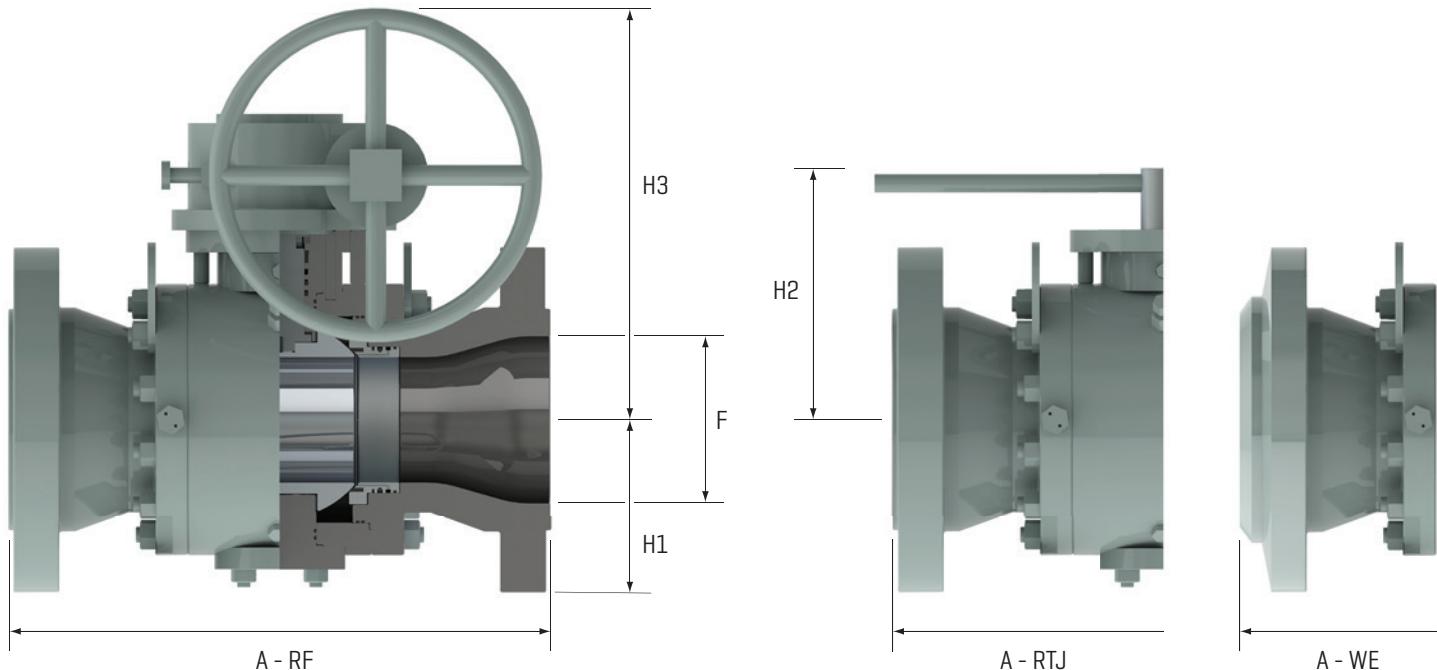
CLASS 1500	Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	
	IN 1*	1.00	/	10.0	/	3.15	5.90	7.64			70
	MM 25	25	/	254	/	80	150	194	●		26
	IN 1.5*	1.50	/	12	/	4	7.56	7.91	●		107
	MM 38	38	/	305	/	100	192	201	●		40
	IN 2*	2.00	14.50	14.625	14.49	4.44	6.50	8.90	●		119
	MM 50	51	368	371	368	113	265	226			54
	IN 3*	3.00	18.50	18.625	18.50	5.56	8.69	11.09	●		240
	MM 80	76	470	473	470	141	221	282			109
	IN 4	4.00	21.50	21.625	21.50	6.50	9.56	11.96	●		420
	MM 100	102	546	549	546	165	243	304			191
	IN 6	5.75	27.75	28.00	27.75	8.69	12.19	14.59		●	1190
	MM 150	152	705	711	705	221	310	371			541
	IN 8	8.00	32.75	33.125	32.75	10.38	14.80	17.20		●	1936
	MM 200	203	832	841	832	264	376	437		●	880
	IN 10	10.00	39.00	39.375	39.02	12.13	16.63	19.78		●	3420
	MM 250	254	991	1000	991	308	422	502		●	1555
	IN 12	12.00	44.50	45.125	44.50	13.88	18.69	21.84		●	5120
	MM 300	305	1130	1146	1130	353	475	555			2327
	IN 14	13.25	49.50	50.25	49.50	15.50	21.00	24.15		●	6259
	MM 350	337	1257	1276	1257	394	533	613			2845
	IN 16	15.25	54.50	55.375	54.50	17.19	22.75	26.75		●	9210
	MM 400	387	1384	1407	1384	437	578	680			4186

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 24" Class: 1500



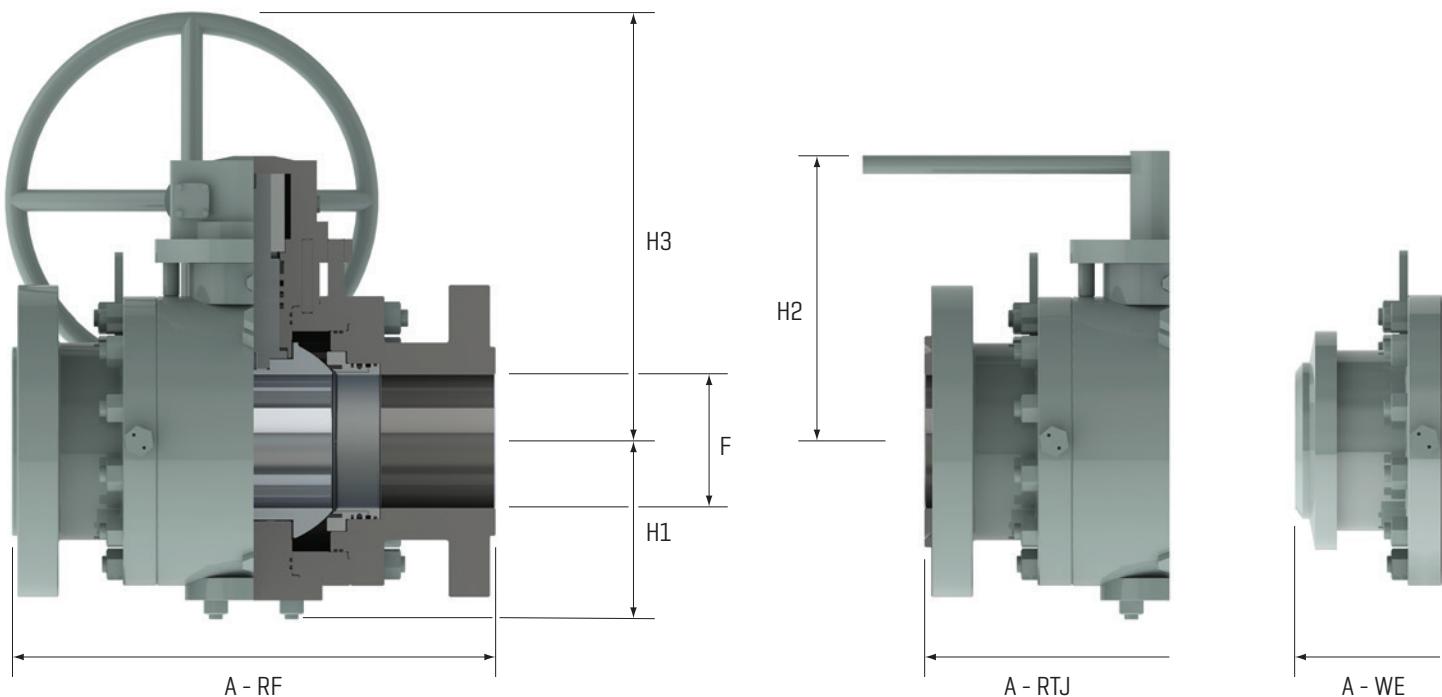
Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT		
IN 3 x 2*	2.00	18.50	18.625	18.50	5.22	7.28	9.68	●		170	155
MM 80 x 50	51	470	473	470	133	185	246			77	71
IN 4 x 3	3.00	21.50	21.625	21.50	6.34	9.47	11.87	●		320	265
MM 100 x 80	76	546	549	546	161	241	301			145	120
IN 6 x 4	4.00	27.75	28.00	27.75	7.28	10.34	12.74		●	650	540
MM 150 x 100	102	705	711	705	185	263	324			295	245
IN 8 x 6	6.00	32.75	33.125	32.75	9.47	13.29	15.59		●	1450	980
MM 200 x 150	152	832	841	832	241	338	396			659	445
IN 10 x 8	8.00	39.00	39.375	39.00	11.16	15.90	18.30	●		2380	1666
MM 250 x 200	203	991	1000	991	283	404	465			1082	757
IN 12 x 10	10.00	44.50	45.125	44.50	13.23	17.84	20.98	●		4070	2849
MM 300 x 250	254	1130	1146	1130	336	453	533			1850	1295
IN 14 x 12	12.00	49.50	50.25	49.50	14.98	20.00	23.04	●		5741	4020
MM 350 x 300	305	1257	1276	1257	381	508	585			2606	1827
IN 16 x 14	13.25	54.50	55.375	54.50	16.60	22.30	25.45	●		6678	5640
MM 400 x 350	337	1384	1407	1384	422	566	646			2845	1959
IN 18 x 16	15.25	60.50	61.375	60.50	18.39	24.05	28.05	●		12180	9740
MM 450 x 400	387	1537	1559	1219	467	611	712			5536	4427
IN 20 x 18	17.25	65.50	66.375	65.50	20.05	27.05	31.10	●		17360	14800
MM 500 x 450	438	1664	1686	1321	509	687	790			7891	6727
IN 24 x 20	19.25	76.50	77.625	76.50	21.90	28.80	33.90	●		23820	19120
MM 600 x 500	489	1943	1972	1943	556	732	861			10830	8690

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Full Port - API 6D

Size: 1" - 12" Class: 2500



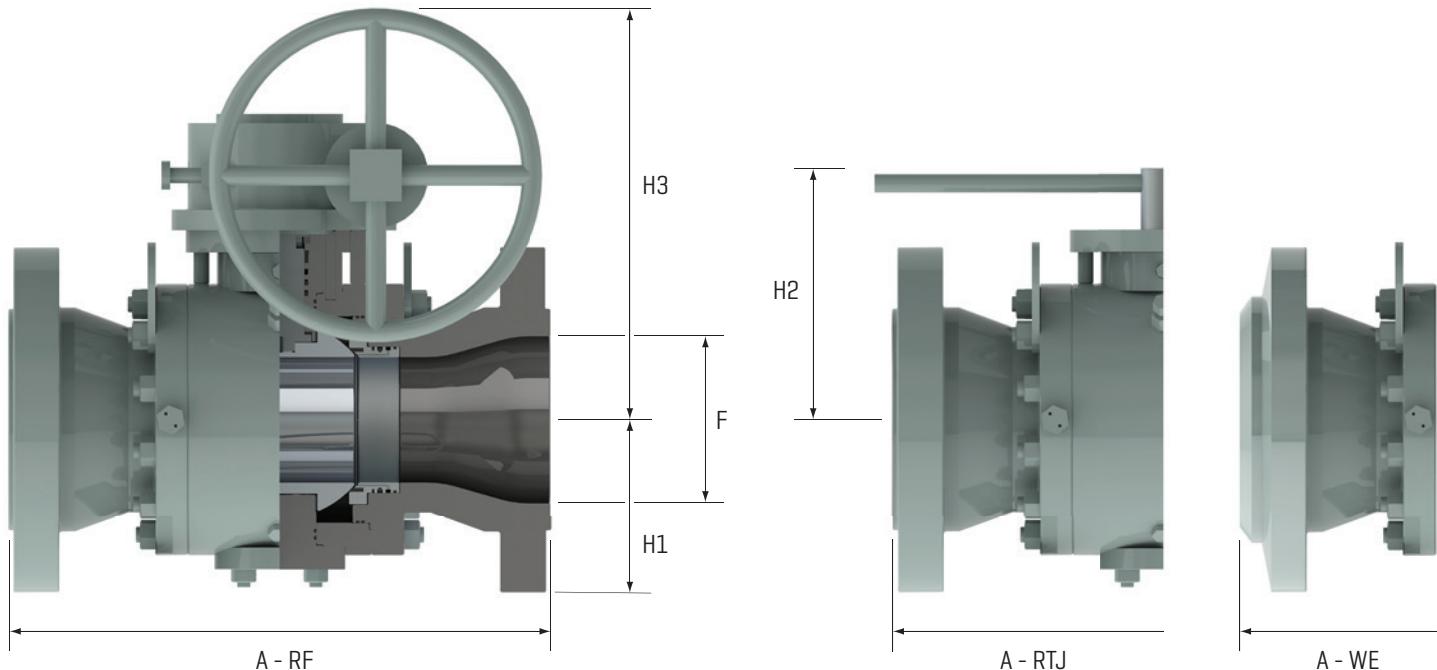
CLASS 2500	Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	
	IN 1*	1.00	/	14.0	/	3.78	7.56	/	●		97
	MM 25	25	/	356	/	96	192	/			36
	IN 1.5*	1.50	/	15.24	/	4.30	8.15	/	●		130
	MM 38	38	/	387	/	109	209	/	●		48
	IN 2*	2.00	17.75	17.875	17.75	4.44	7.28	10.90	●		225
	MM 50	51	451	454	451	113	185	277			115
	IN 3*	3.00	22.75	23.00	22.75	5.56	9.47	13.05	●		440
	MM 80	76	578	584	578	141	241	331			200
	IN 4	4.00	26.50	26.875	26.50	6.50	10.34	13.92	●		825
	MM 100	102	673	682	673	165	263	354			370
	IN 6	6.00	36.00	36.50	36.00	8.69	12.97	16.55		●	1790
	MM 150	152	914	927	914	220	329	420			800
	IN 8	8.00	40.25	40.875	40.25	10.38	15.58	19.10		●	3500
	MM 200	203	1022	1038	1022	264	396	485			1600
	IN 10	10.00	50.00	50.875	50.00	12.13	17.41	21.74		●	5400
	MM 250	254	1270	1292	1270	308	442	552			2500
	IN 12	12.00	56.00	56.875	56.00	13.88	19.47	23.80		●	8300
	MM 300	305	1422	1444	1422	353	495	605			4000

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

3-Piece Trunnion Ball Valves Reduced Port - API 6D

Size: 3" - 12" Class: 2500

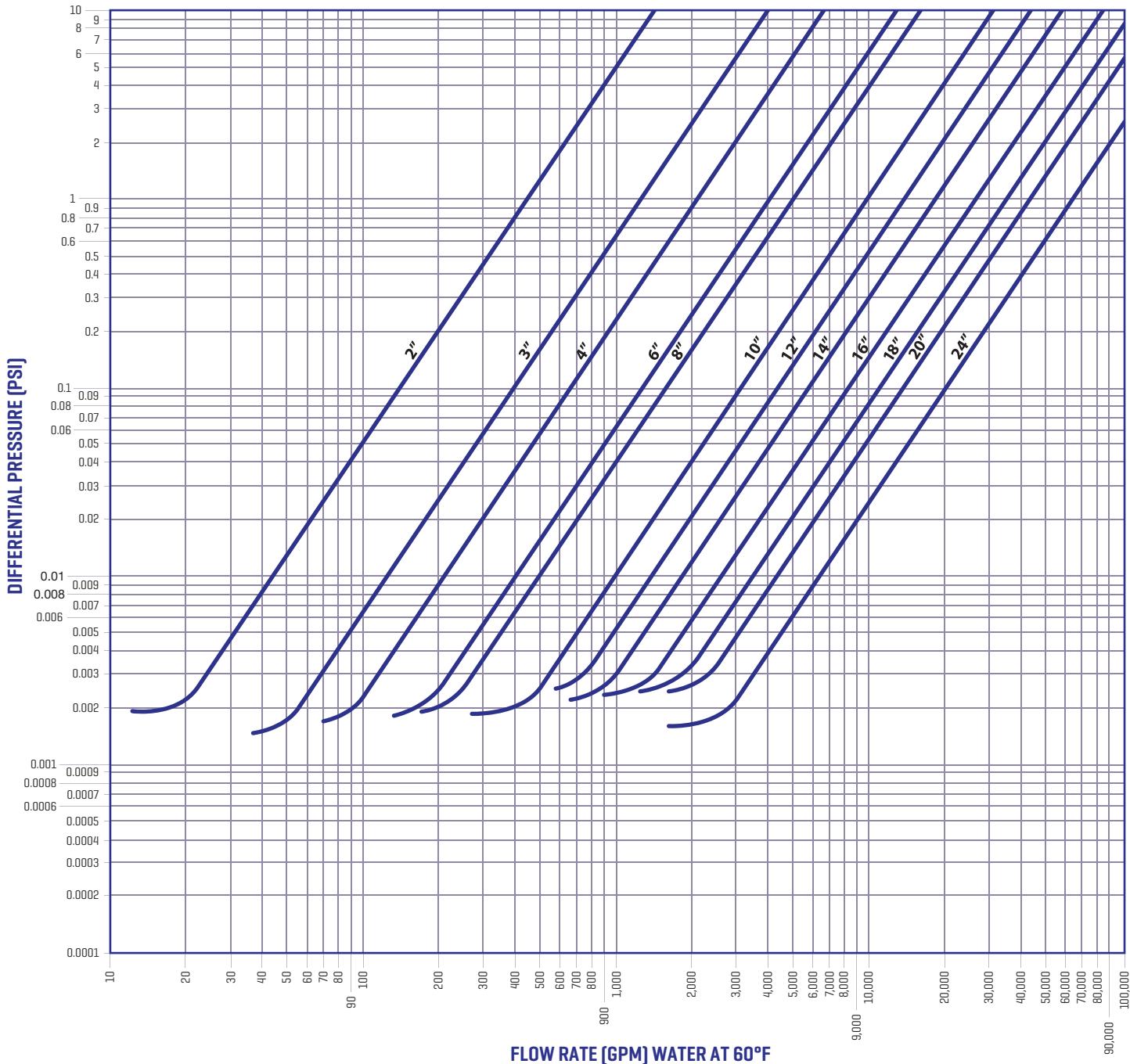


CLASS 2500	Size	Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
		F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
	IN 3 x 2*	2.00	22.75	23.00	22.75	5.22	8.06	11.64	●		305	260
	MM 80 x 50	50	51	578	584	578	133	205			296	120
	IN 4 x 3	3.00	26.50	26.875	26.50	6.34	10.25	13.84	●		620	527
	MM 100 x 80	80	76	673	683	673	161	260			352	240
	IN 6 x 4	4.00	36.00	36.50	36.00	7.28	11.12	14.70		●	1270	1080
	MM 150 x 100	102	914	927	914	185	282	373			373	490
	IN 8 x 6	6.00	40.25	40.875	40.25	9.47	14.07	17.65		●	2630	2235
	MM 200 x 150	152	1022	1038	1022	241	357	448			1195	995
	IN 10 x 8	8.00	50.00	50.875	50.00	11.16	16.68	20.26		●	4750	4030
	MM 250 x 200	203	1270	1292	1270	283	424	515			2160	1830
	IN 12 x 10	10.00	56.00	56.875	56.00	13.23	18.62	22.94		●	6620	5620
	MM 300 x 250	254	1422	1445	1422	336	473	583			3010	2550

* = Lever operated

Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.

Liquid: Pressure Loss Curves for Trunnion Ball Valves



Flow Coefficient for Fully Open Valves	
2	447
3	1,264
4	2,121
6	4,082
8	5,000
10	10,000
12	14,000
14	18,584
16	26,516
18	35,172
20	44,008
24	64,616

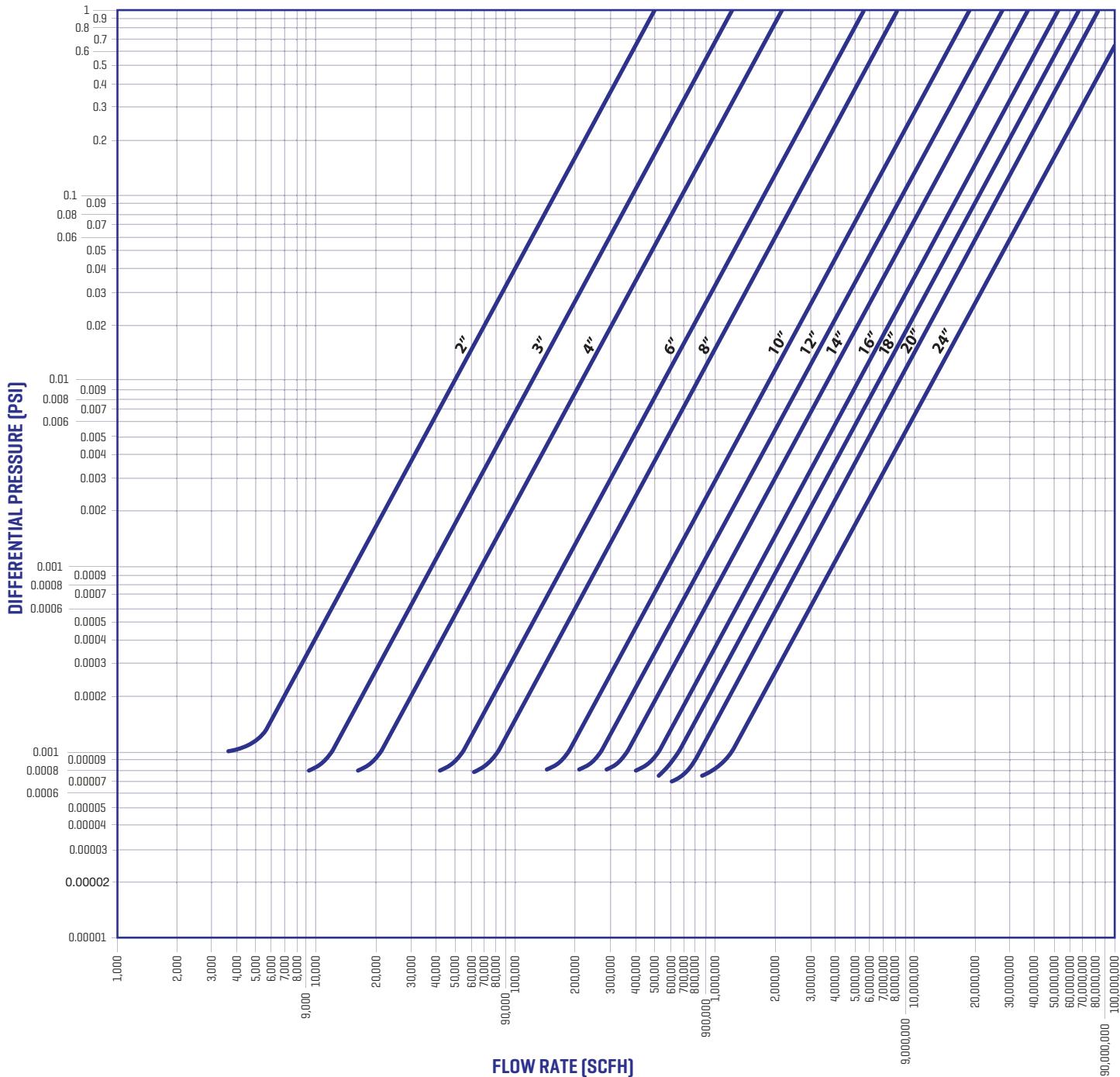
The equations listed are the basis for the above graph. The formulas can be used to find the actual flow coefficient for a given condition of flow.

Glossary of Terms	
Q	Flow Rate, Liquids - GPM
C _v	Flow Coefficient
P ₁	Inlet Pressure
P ₂	Outlet Pressure
ΔP	Pressure Drop [P ₁ - P ₂]
G	Specific Gravity (Water = 1)

Liquid (Incompressible Flow)

$$C_v = Q \sqrt{\frac{G}{\Delta P}} \quad Q = C_v \sqrt{\frac{\Delta P}{G}} \quad \Delta P = \left[\frac{Q}{C_v} \right]^2 G$$

Gas: Pressure Loss Curves for Trunnion Ball Valves



Flow Coefficient for Fully Open Valves

2	227
3	561
4	994
6	2,522
8	3,803
10	8,594
12	12,549
14	16,778
16	24,000
18	30,525
20	38,668
24	56,481

The equations listed are the basis for the above graph. The formulas can be used to find the actual flow coefficient for a given condition of flow.

Glossary of Terms

Q	Flow Rate - [SCFH]
C _v	Flow Coefficient
P ₁	Inlet Pressure - [psi]
P ₂	Outlet Pressure - [psi]
ΔP	Pressure Drop [P ₁ - P ₂]
G	Specific Gravity (Dry Air = 1)
T	Temperature (°F+460)

Gas (Compressible Flow)

$$C_v = \frac{Q}{963} \sqrt{\frac{GT}{P_1^2 - P_2^2}} \quad Q = C_v 963 \sqrt{\frac{P_1^2 - P_2^2}{GT}}$$

Operating Torques

The operating torques are in inch pounds and are calculated based on Devlon seats and clean liquid service [no safety factor].

Torque Multipliers		Liquid Slurry 1.8		Lubtristic Fluids 0.8		Gas Clean Dry 1.2	
Size		Class	Break to Open	Break to Close	Run Torque	Mast	
IN MM	2 50	150	540	432	270	1080	
		300	772	618	386	1544	
		600	1210	968	605	2420	
		900	2652	2122	1326	5304	
		1500	2652	2122	1326	5304	
		2500	4501	3601	2251	9002	
IN MM	3 80	150	688	550	344	1376	
		300	1122	898	561	2244	
		600	2185	1748	1093	4370	
		900	3228	2582	1614	6456	
		1500	5649	4519	2825	11298	
		2500	8607	6886	4304	17214	
IN MM	4 100	150	1110	888	555	2220	
		300	1989	1591	995	3978	
		600	4572	3658	2286	9144	
		900	6422	5138	3211	12844	
		1500	10128	8102	5064	20256	
		2500	15300	12240	7650	30600	
IN MM	6 150	150	4071	3257	2036	8142	
		300	5620	4656	2910	11640	
		600	9660	7728	4830	19320	
		900	15780	12624	7890	31560	
		1500	25680	20544	12840	51360	
		2500	43707	34966	21854	87414	
IN MM	8 200	150	7070	5656	3535	14140	
		300	12772	10218	6386	25544	
		600	19584	15667	9792	39168	
		900	31824	25459	15912	63648	
		1500	48720	38976	34360	97440	
		2500	76176	60941	38088	152352	
IN MM	10 250	150	10504	8403	5252	21008	
		300	19488	15590	9744	38976	
		600	30540	24432	15270	61080	
		900	44400	35520	22200	88800	
		1500	74400	59520	24441	190952	
		2500	125616	100493	62808	251232	
IN MM	12 300	150	13506	10805	6753	27012	
		300	22344	17875	11172	44688	
		600	51312	41050	25656	102624	
		900	79716	63773	39858	159432	
		1500	106284	85027	53142	212568	
		2500	211884	169507	105942	423768	
IN MM	14 350	150	17373	13989	8687	34746	
		300	28332	22666	14166	56664	
		600	57456	45965	28728	114912	
		900	97428	77942	48714	194856	
		1500	144948	115958	72474	289896	
		150	25727	20582	12864	51454	
IN MM	16 400	300	46860	37488	23430	93720	
		600	78828	63062	39414	157656	
		900	138804	111043	69402	277608	
		1500	197472	157978	98736	394944	
		150	33543	26834	16772	67086	
		300	54624	43699	27312	109248	
IN MM	18 450	600	119568	95654	59784	239136	
		900	194017	155214	97009	388034	
		150	42516	34013	21258	85032	
		300	71186	56949	35593	142372	
		600	158906	127125	79453	317812	
		900	235887	188710	117944	471774	
IN MM	20 500	150	61992	49594	30996	123984	
		300	109970	87976	54985	219940	
		600	234886	187909	117443	469772	
		900	365157	282126	182579	730314	

Torques for larger sizes available upon request.

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
150	-20 to 100	285	285	285	290	265	290	290	290	290	290	275	275	290	290
	200	260	260	260	260	255	260	260	260	260	260	235	235	260	260
	300	230	230	230	230	230	230	230	230	230	230	215	215	230	230
	400	200	200	200	200	200	200	200	200	200	200	195	195	200	200
	500	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	600	140	140	140	140	140	140	140	140	140	140	140	140	140	140
	650	125	125	125	125	125	125	125	125	125	125	125	125	125	125
	700	110	110	110	110	110	110	110	110	110	110	110	110	110	110
	750	95	95	95	95	95	95	95	95	95	95	95	95	95	95
	800	80	80	80	80	80	80	80	80	80	80	80	80	/	/
	850	65	65	65	65	65	65	65	65	65	65	65	65	/	/
	900	50	50	50	50	50	50	50	50	50	50	50	50	/	/
	950	35	35	35	35	35	35	35	35	35	35	35	35	/	/
	1000	20	20	20	20	20	20	20	20	20	20	20	20	/	/
	1050	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1100	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1150	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1200	/	/	/	/	/	15	/	15	20	20	20	20	/	/
	1250	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1300	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1350	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1400	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1450	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1500	/	/	/	/	/	/	/	/	/	/	15	15	/	/
300	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	740	740	740	750	695	750	750	750	750	750	720	720	750	750
	200	680	680	680	750	660	750	750	750	750	750	620	620	745	745
	300	655	655	655	730	640	720	730	730	730	730	560	560	665	665
	400	635	635	635	705	615	695	705	705	705	705	515	515	615	615
	500	605	605	605	665	585	665	665	665	665	665	480	480	580	580
	600	570	570	570	605	550	605	605	605	605	605	450	450	555	555
	650	550	550	550	590	535	590	590	590	590	590	440	440	545	545
	700	530	530	530	555	510	570	555	570	570	570	435	435	540	540
	750	505	505	505	505	475	530	505	530	530	530	425	425	530	530
	800	410	410	410	410	390	510	410	510	510	510	420	420	/	/
	850	320	320	320	320	300	485	320	485	485	485	420	420	/	/
	900	230	230	230	225	200	450	225	375	450	450	415	415	/	/
	950	135	135	135	135	135	320	135	275	375	385	385	385	/	/
	1000	85	85	85	85	85	215	85	200	255	365	365	365	/	/
	1050	/	/	/	/	/	145	/	145	170	360	160	160	/	/
	1100	/	/	/	/	/	95	/	100	115	300	305	305	/	/
	1150	/	/	/	/	/	65	/	60	75	225	235	235	/	/
	1200	/	/	/	/	/	40	/	35	50	145	185	185	/	/
	1250	/	/	/	/	/	/	/	/	/	/	145	145	/	/
	1300	/	/	/	/	/	/	/	/	/	/	115	115	/	/
	1350	/	/	/	/	/	/	/	/	/	/	95	95	/	/
	1400	/	/	/	/	/	/	/	/	/	/	75	75	/	/
	1450	/	/	/	/	/	/	/	/	/	/	60	60	/	/
	1500	/	/	/	/	/	/	/	/	/	/	40	40	/	/

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

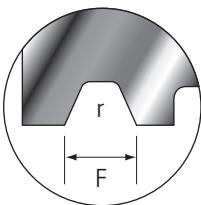
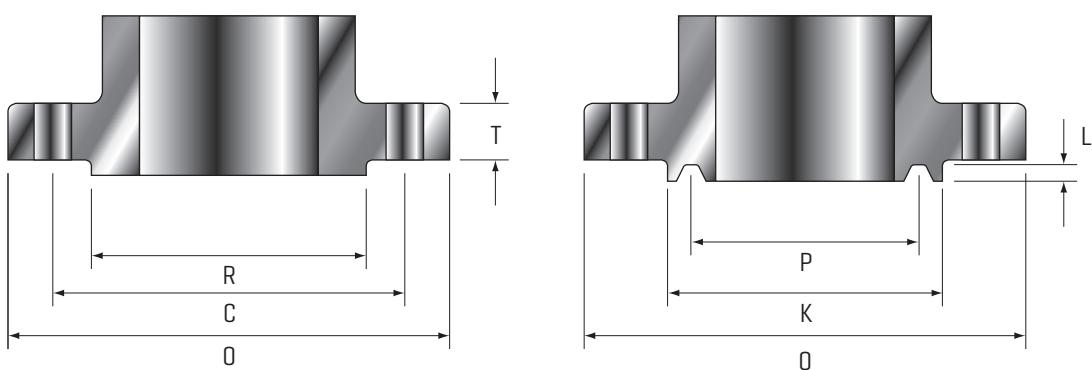
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
	400	1265	1265	1265	1405	1230	1385	1405	1410	1410	1410	1025	1025	1230	1230
	500	1205	1205	1205	1330	1175	1330	1330	1330	1330	1330	995	995	1160	1160
	600	1135	1135	1135	1210	1105	1210	1210	1210	1210	1210	900	900	1115	1115
	650	1100	1100	1100	1175	1065	1175	1175	1175	1175	1175	885	885	1095	1095
	700	1060	1060	1060	1110	1025	1135	1110	1135	1135	1135	870	870	1085	1085
	750	1015	1015	1015	1015	955	1065	1015	1065	1065	1065	855	855	1065	1065
	800	825	825	825	825	780	1015	825	1015	1015	1015	845	845	/	/
	850	640	640	640	640	595	975	640	975	975	975	835	835	/	/
	900	460	460	460	445	405	900	445	745	900	900	830	830	/	/
	950	275	275	275	275	275	640	275	550	755	775	775	/	/	/
	1000	170	170	170	170	170	430	170	400	505	725	725	725	/	/
	1050	/	/	/	/	/	290	/	290	345	720	720	720	/	/
	1100	/	/	/	/	/	190	/	200	225	605	610	610	/	/
	1150	/	/	/	/	/	130	/	125	150	445	475	475	/	/
	1200	/	/	/	/	/	80	/	70	105	290	370	370	/	/
	1250	/	/	/	/	/	/	/	/	/	295	295	/	/	/
	1300	/	/	/	/	/	/	/	/	/	235	235	/	/	/
	1350	/	/	/	/	/	/	/	/	/	190	190	/	/	/
	1400	/	/	/	/	/	/	/	/	/	150	150	/	/	/
	1450	/	/	/	/	/	/	/	/	/	115	115	/	/	/
	1500	/	/	/	/	/	/	/	/	/	85	85	/	/	/
900	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	2220	2220	2220	2250	2090	2250	2250	2250	2250	2250	2160	2160	2250	2250
	200	2035	2035	2035	2250	1980	2250	2250	2250	2250	2250	1860	1860	2230	2230
	300	1965	1965	1965	2185	1915	2185	2185	2185	2185	2185	1680	1680	2000	2000
	400	1900	1900	1900	2110	1845	2080	2110	2115	2115	2115	1540	1540	1845	1845
	500	1810	1810	1810	1995	1760	1995	1995	1995	1995	1995	1435	1435	1740	1740
	600	1705	1705	1705	1815	1655	1815	1815	1815	1815	1815	1355	1355	1670	1670
	650	1650	1650	1650	1765	1600	1765	1765	1765	1765	1765	1325	1325	1640	1640
	700	1590	1590	1590	1665	1535	1705	1665	1705	1705	1705	1305	1305	1625	1625
	750	1520	1520	1520	1520	1430	1595	1520	1595	1595	1595	1280	1280	1595	1595
	800	1235	1235	1235	1235	1175	1525	1235	1525	1525	1525	1265	1265	/	/
	850	955	955	955	955	895	1460	955	1460	1460	1460	1255	1255	/	/
	900	690	690	690	670	605	1350	670	1120	1350	1350	1245	1245	/	/
	950	410	410	410	410	410	955	410	825	1130	1160	1160	1160	/	/
	1000	255	255	255	255	255	650	255	595	760	1090	1090	1090	/	/
	1050	/	/	/	/	/	430	/	430	515	1080	1080	1080	/	/
	1100	/	/	/	/	/	290	/	300	340	905	915	915	/	/
	1150	/	/	/	/	/	195	/	185	225	670	710	710	/	/
	1200	/	/	/	/	/	125	/	105	155	430	555	555	/	/
	1250	/	/	/	/	/	/	/	/	/	440	440	/	/	/
	1300	/	/	/	/	/	/	/	/	/	350	350	/	/	/
	1350	/	/	/	/	/	/	/	/	/	290	290	/	/	/
	1400	/	/	/	/	/	/	/	/	/	225	225	/	/	/
	1450	/	/	/	/	/	/	/	/	/	175	175	/	/	/
	1500	/	/	/	/	/	/	/	/	/	125	125	/	/	/

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
1500	-20 to 100	3705	3705	3705	3750	3480	3750	3750	3750	3750	3750	3600	3600	3750	3750
	200	3395	3395	3395	3750	3300	3750	3750	3750	3750	3750	3095	3095	3720	3720
	300	3270	3270	3270	3640	3190	3610	3640	3640	3640	3640	2795	2795	3335	3335
	400	3170	3170	3170	3520	3075	3465	3520	3530	3530	3530	2570	2570	3070	3070
	500	3015	3015	3015	3325	2930	3325	3325	3325	3325	3325	2390	2390	2905	2905
	600	2840	2840	2840	3025	2755	3025	3025	3025	3025	3025	2255	2255	2785	2785
	650	2745	2745	2745	2940	2665	2940	2940	2940	2940	2940	2210	2210	2735	2735
	700	2665	2665	2665	2775	2560	2840	2775	2840	2840	2840	2170	2170	2710	2710
	750	2535	2535	2535	2535	2385	2660	2535	2660	2660	2660	2135	2135	2660	2660
	800	2055	2055	2055	2055	1955	2540	2055	2540	2540	2540	2110	2110	/	/
	850	1595	1595	1595	1595	1490	2435	1595	2435	2435	2435	2090	2090	/	/
	900	1150	1150	1150	1150	1010	2245	1115	1870	2245	2245	2075	2075	/	/
	950	685	685	685	685	685	1591	685	1370	1885	1930	1930	1930	/	/
	1000	430	430	430	430	430	1080	430	995	1270	1820	1820	1820	/	/
	1050	/	/	/	/	/	720	/	720	855	1800	1800	1800	/	/
	1100	/	/	/	/	/	480	/	495	565	1510	1525	1525	/	/
	1150	/	/	/	/	/	325	/	310	375	1115	1185	1185	/	/
	1200	/	/	/	/	/	205	/	170	255	720	925	925	/	/
	1250	/	/	/	/	/	/	/	/	/	/	735	735	/	/
	1300	/	/	/	/	/	/	/	/	/	/	585	585	/	/
	1350	/	/	/	/	/	/	/	/	/	/	480	480	/	/
	1400	/	/	/	/	/	/	/	/	/	/	380	380	/	/
	1450	/	/	/	/	/	/	/	/	/	/	290	290	/	/
	1500	/	/	/	/	/	/	/	/	/	/	205	205	/	/
2500	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	6170	6170	6170	6250	5805	6250	6250	6250	3250	6250	6000	6000	6250	6250
	200	5655	5655	5655	6250	5505	6250	6250	6250	6250	6250	5160	5160	6200	6200
	300	5450	5450	5450	6070	5315	6015	6070	6070	6070	6070	4660	4660	5560	5560
	400	5280	5280	5280	5865	5125	5775	5865	5880	5880	5880	4280	4280	5120	5120
	500	5025	5025	5025	5540	4885	5540	5540	5540	5540	5540	3980	3980	4840	4840
	600	4730	4730	4730	5040	4595	5040	5040	5040	5040	5040	3760	3760	4640	4640
	650	4575	4575	4575	4905	4440	4905	4905	4905	4905	4905	3680	3680	4560	4560
	700	4425	4425	4425	4630	4270	4730	4630	4730	4730	4730	3620	3620	4520	4520
	750	4230	4230	4230	4230	3970	4430	4230	4430	4430	4430	3560	3560	4430	4430
	800	3430	3430	3430	3430	3255	4230	3430	4230	4230	4230	3520	3520	/	/
	850	2655	2655	2655	2655	2485	4060	2655	4060	4060	4060	3480	3480	/	/
	900	1915	1915	1915	1855	1685	3745	1855	3115	3745	3745	3460	3460	/	/
	950	1145	1145	1145	1145	1145	3655	1145	2285	3145	3220	3220	3220	/	/
	1000	715	715	715	715	1800	715	1655	2115	3030	3030	3030	3030	/	/
	1050	/	/	/	/	/	1200	/	1200	1430	3000	3000	3000	/	/
	1100	/	/	/	/	/	800	/	830	945	2515	2545	2545	/	/
	1150	/	/	/	/	/	545	/	515	630	1855	1970	1970	/	/
	1200	/	/	/	/	/	345	/	285	770	1200	1545	1545	/	/
	1250	/	/	/	/	/	/	/	/	/	/	1230	1230	/	/
	1300	/	/	/	/	/	/	/	/	/	/	970	970	/	/
	1350	/	/	/	/	/	/	/	/	/	/	800	800	/	/
	1400	/	/	/	/	/	/	/	/	/	/	630	630	/	/
	1450	/	/	/	/	/	/	/	/	/	/	485	485	/	/
	1500	/	/	/	/	/	/	/	/	/	/	345	345	/	/

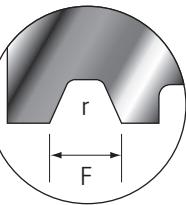
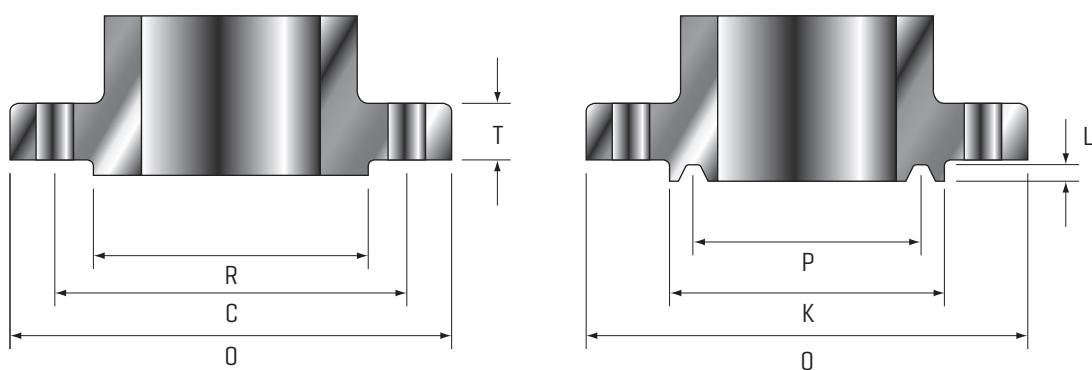
Flange Dimensions - ANSI B16.5 & B16.47



Groove Detail

Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt Circle Dia.	# of Bolts	Hole Dia.		Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
					O	T	R		K	P	L	F	r
150	2	6.00	0.75	3.62	4.75	4	0.75	4.00	3.250	0.250	0.344	0.03	R22
	2.5	7.00	0.88	4.12	5.50	4	0.75	4.75	4.000	0.250	0.344	0.03	R25
	3	7.50	0.94	5.00	6.00	4	0.75	5.25	4.500	0.250	0.344	0.03	R29
	4	9.00	0.94	6.19	7.50	8	0.75	6.75	5.875	0.250	0.344	0.03	R36
	6	11.00	1.00	8.50	9.50	8	0.88	8.62	7.625	0.250	0.344	0.03	R43
	8	13.50	1.12	10.62	11.75	8	0.88	10.75	9.750	0.250	0.344	0.03	R48
	10	16.00	1.19	12.75	14.25	12	1.00	13.00	12.000	0.250	0.344	0.03	R52
	12	19.00	1.25	15.00	17.00	12	1.00	16.00	15.000	0.250	0.344	0.03	R56
	14	21.00	1.38	16.25	18.75	12	1.12	16.75	15.625	0.250	0.344	0.03	R59
	16	23.50	1.44	18.50	21.25	16	1.12	19.00	17.875	0.250	0.344	0.03	R64
	18	25.00	1.56	21.00	22.75	16	1.25	21.50	20.375	0.250	0.344	0.03	R68
	20	27.50	1.69	23.00	25.00	20	1.25	23.50	22.000	0.250	0.344	0.03	R72
	22	29.50	1.81	25.25	27.25	20	1.38	/	/	/	/	/	/
	24	32.00	1.88	27.25	29.50	20	1.38	28.00	26.500	0.250	0.344	0.03	R76
	26	34.25	2.69	29.50	31.75	24	1.38	/	29.500	0.500	0.781	0.060	R93
	28	36.50	2.81	31.50	34.00	28	1.38	/	31.500	0.500	0.781	0.060	R94
	30	38.75	2.94	33.75	36.00	28	1.38	/	33.750	0.500	0.781	0.060	R95
	32	41.75	3.19	36.00	38.50	28	1.62	/	36.000	0.562	0.906	0.060	R96
	34	43.75	3.25	38.00	40.50	32	1.62	/	38.000	0.562	0.906	0.060	R97
	36	46.00	3.56	40.25	42.75	32	1.62	/	40.250	0.562	0.906	0.060	R98
300	2	6.50	0.88	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	R23
	2.5	7.50	1.00	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	R26
	3	8.25	1.12	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	R31
	4	10.00	1.25	6.19	7.88	8	0.88	6.88	5.875	0.312	0.469	0.03	R37
	6	12.50	1.44	8.50	10.62	12	0.88	9.50	8.312	0.312	0.469	0.03	R45
	8	15.00	1.62	10.62	13.00	12	1.00	11.88	10.625	0.312	0.469	0.03	R49
	10	17.50	1.88	12.75	15.25	16	1.12	14.00	12.750	0.312	0.469	0.03	R53
	12	20.50	2.00	15.00	17.75	16	1.25	16.25	15.000	0.312	0.469	0.03	R57
	14	23.00	2.12	16.25	20.25	20	1.25	18.00	16.500	0.312	0.469	0.03	R61
	16	25.50	2.25	18.50	22.50	20	1.38	20.00	18.500	0.312	0.469	0.03	R65
	18	28.00	2.38	21.00	24.75	24	1.38	22.62	21.000	0.312	0.469	0.03	R69
	20	30.50	2.50	23.00	27.00	24	1.38	25.00	23.000	0.375	0.531	0.06	R73
	22	33.00	2.62	25.25	29.25	24	1.62	27.00	25.000	0.438	0.594	0.06	R81
	24	36.00	2.75	27.25	32.00	24	1.62	29.50	27.250	0.438	0.656	0.06	R77
	26	38.25	3.31	29.50	34.50	28	1.75	31.88	29.500	0.500	0.781	0.06	R93
	28	40.75	3.56	31.50	37.00	28	1.75	33.88	31.500	0.500	0.781	0.06	R94
	30	43.00	3.75	33.75	39.25	28	1.88	36.12	33.750	0.500	0.781	0.06	R95
	32	45.25	3.94	36.00	41.50	28	2.00	38.75	36.000	0.562	0.906	0.06	R96
	34	47.50	4.12	38.00	43.50	28	2.00	40.75	38.000	0.562	0.906	0.06	R97
	36	50.00	4.38	40.25	46.00	32	2.12	43.00	40.250	0.562	0.906	0.06	R98

Flange Dimensions - ANSI B16.5 & B16.47



Groove Detail

Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint					
					Bolt Circle Dia.	# of Bolts	Hole Dia.		K	P	L	F	r	Ring No.
	O	T	R	C										
600	2	6.50	1.00	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	0.03	R23
	2.5	7.50	1.12	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	0.03	R26
	3	8.25	1.25	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	0.03	R31
	4	10.75	1.50	6.19	8.50	8	1.00	6.88	5.875	0.312	0.469	0.03	0.03	R37
	6	14.00	1.88	8.50	11.50	12	1.12	9.50	8.312	0.312	0.469	0.03	0.03	R45
	8	16.50	2.19	10.62	13.75	12	1.25	11.88	10.625	0.312	0.469	0.03	0.03	R49
	10	20.00	2.50	12.75	17.00	16	1.38	14.00	12.750	0.312	0.469	0.03	0.03	R53
	12	22.00	2.62	15.00	19.25	20	1.38	16.25	15.000	0.312	0.469	0.03	0.03	R57
	14	23.75	2.75	16.25	20.75	20	1.5	18.00	16.500	0.312	0.469	0.03	0.03	R61
	16	27.00	3.00	18.50	23.75	20	1.62	20.00	18.500	0.312	0.469	0.03	0.03	R65
	18	29.25	3.25	21.00	25.75	20	1.75	22.62	21.000	0.312	0.469	0.03	0.03	R69
	20	32.00	3.50	23.00	28.50	24	1.75	25.00	23.000	0.375	0.531	0.06	0.06	R73
	22	34.25	3.75	25.25	30.62	24	1.88	27.00	25.000	0.438	0.594	0.06	0.06	R81
	24	37.00	4.00	27.25	33.00	24	2.00	29.50	27.250	0.438	0.659	0.06	0.06	R77
900	2	8.5	1.5	3.62	6.5	8	1	4.88	3.75	0.312	0.469	0.03	0.03	R24
	2.5	9.62	1.62	4.12	7.50	8	1.12	5.39	4.250	0.312	0.469	0.03	0.03	R27
	3	9.50	1.50	5.00	7.50	8	1.00	6.12	4.875	0.312	0.469	0.03	0.03	R31
	4	11.50	1.75	6.19	9.25	8	1.25	7.12	5.875	0.312	0.469	0.03	0.03	R37
	6	15.50	2.19	8.50	12.50	12	1.25	9.50	8.312	0.312	0.469	0.03	0.03	R45
	8	18.50	2.50	10.62	15.50	12	1.50	12.12	10.625	0.312	0.469	0.03	0.03	R49
	10	21.50	2.75	12.75	18.50	16	1.50	14.25	12.750	0.312	0.469	0.03	0.03	R53
	12	24.00	3.12	15.00	21.00	20	1.50	16.50	15.000	0.312	0.469	0.03	0.03	R57
	14	25.25	3.38	16.25	22.00	20	1.62	18.38	16.500	0.438	0.656	0.06	0.06	R62
	16	27.75	3.50	18.50	24.25	20	1.75	20.62	18.500	0.438	0.656	0.06	0.06	R66
	18	31.00	4.00	21.00	27.00	20	2.00	23.38	21.00	0.500	0.781	0.06	0.06	R70
	20	33.75	4.25	23.00	29.50	20	2.12	25.50	23.000	0.500	0.781	0.06	0.06	R74
	24	41.00	5.50	27.25	35.50	20	2.62	30.38	27.250	0.625	1.062	0.09	0.09	R78
1500	2	8.50	1.50	3.62	6.50	8	1.00	4.88	3.750	0.312	0.469	0.03	0.03	R24
	2.5	9.62	1.62	4.12	7.50	8	1.12	5.38	4.250	0.312	0.469	0.03	0.03	R27
	3	10.50	1.88	5.00	8.00	8	1.25	6.62	5.375	0.312	0.469	0.03	0.03	R35
	4	12.25	2.12	6.19	9.50	8	1.38	7.62	6.375	0.312	0.469	0.03	0.03	R39
	6	15.50	3.25	8.50	12.50	12	1.50	9.75	8.312	0.375	0.531	0.06	0.06	R46
	8	19.00	3.62	10.62	15.50	12	1.75	12.50	10.625	0.438	0.656	0.06	0.06	R50
	10	23.00	4.25	12.75	19.00	12	2.00	14.62	12.750	0.438	0.656	0.06	0.06	R54
	12	26.00	4.88	15.00	22.50	16	2.12	17.25	15.000	0.562	0.906	0.06	0.06	R58
	14	29.50	5.25	16.25	25.00	16	2.38	19.25	16.500	0.625	1.062	0.09	0.09	R63
	16	32.50	5.75	18.50	27.75	16	2.62	21.50	18.500	0.688	1.188	0.09	0.09	R67
	18	36.00	6.38	21.00	30.50	16	2.88	24.12	21.000	0.688	1.188	0.09	0.09	R71
	20	38.75	7.00	23.00	32.75	16	3.12	26.50	23.000	0.688	1.312	0.09	0.09	R75
	24	46.00	8.00	27.25	39.00	16	3.62	31.25	27.250	0.812	1.438	0.09	0.09	R79
2500	2	9.25	2.00	3.62	6.75	8	1.00	4.48	4.000	0.312	0.469	0.030	0.030	R26
	2.5	10.50	2.25	4.12	7.75	8	1.13	5.86	4.375	0.375	0.531	0.060	0.060	R28
	3	12.00	2.62	5.00	9.00	8	1.25	6.61	5.000	0.375	0.531	0.060	0.060	R32
	4	14.00	3.00	6.19	10.75	8	1.50	7.99	6.188	0.438	0.656	0.060	0.060	R38
	5	16.50	3.62	7.31	12.75	8	1.75	9.48	7.500	0.500	0.781	0.060	0.060	R40
	6	19.00	4.25	8.50	14.50	8	2.00	10.98	9.000	0.500	0.781	0.060	0.060	R47
	8	21.75	5.00	10.62	17.25	12	2.00	13.38	11.000	0.562	0.906	0.060	0.060	R51
	10	26.50	6.50	12.75	21.75	12	2.50	16.73	13.500	0.688	1.188	0.090	0.090	R55
	12	30.00	7.25	15.00	24.38	12	2.75	19.48	16.000	0.688	1.312	0.090	0.090	R60

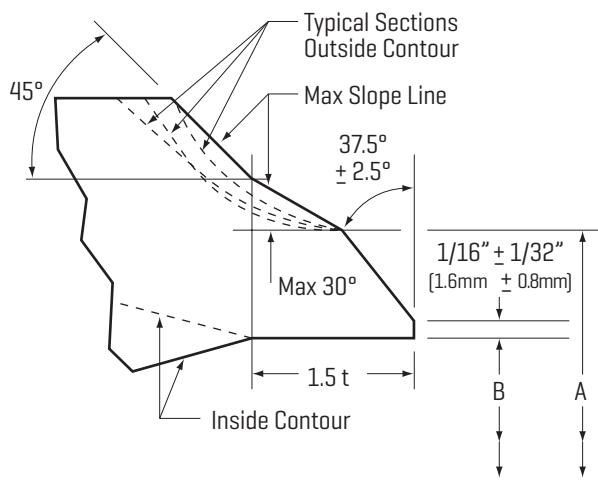
Butt-welding Dimensions - ANSI B16.25

Nominal Pipe Size	Schedule Number or Wall	Outside Diameter [Cast Steel Valves]		Nominal Inside Diameter		Machined Inside Diameter		Nominal Wall Thickness	
		A Inches	A mm	B Inches	B mm	C Inches	C mm	t Inches	t mm
3	xxs	3-19/32	91.282	2.300	58.42	2.409	61.19	0.600	15.24
4	xxs	4-5/8	117.48	3.152	80.06	3.279	83.29	0.674	17.12
5	160	5-11/16	144.46	4.313	109.55	4.428	112.47	0.625	15.88
	xxs			4.063	103.20	4.209	106.91	0.750	19.05
6	120	6-25/32	172.34	5.501	139.72	5.600	142.24	0.562	14.27
	160			5.189	131.80	5.327	135.31	0.719	18.26
	xxs			4.897	124.38	5.072	128.83	0.864	21.95
8	100	8-23/32	223.04	7.439	188.93	7.546	191.67	0.594	15.09
	120			7.189	182.60	7.327	186.11	0.719	18.26
	140			7.001	177.83	7.163	181.94	0.812	20.62
	xxs			6.875	174.63	7.053	179.15	0.875	22.23
	160			6.813	173.05	6.998	177.75	0.960	23.01
10	50	10-15/16	277.81	9.564	242.93	9.671	245.64	0.594	15.09
	100			9.314	236.58	9.452	240.08	0.719	18.26
	120			9.064	230.23	9.234	234.54	0.844	21.44
	140			8.750	222.25	8.959	227.56	1.000	25.40
	160			8.500	215.90	8.740	222.00	1.125	28.58
12	60	12-31/32	329.41	11.626	295.30	11.725	297.82	0.562	14.27
	80			11.376	288.95	11.507	292.28	0.688	17.48
	100			11.064	281.03	11.234	284.34	0.844	21.44
	120			10.750	273.05	10.959	278.36	1.000	25.40
	140			10.500	266.70	10.740	272.80	1.125	28.58
	160			10.126	257.20	10.413	264.49	1.312	33.32
14	60	14-1/4	361.95	12.814	352.48	12.921	328.19	0.594	15.09
	80			12.500	317.50	12.646	321.21	0.750	19.05
	100			12.126	308.00	12.319	312.90	0.938	23.83
	120			11.814	300.08	12.046	305.97	1.094	27.79
	140			11.500	292.10	11.771	298.98	1.250	31.75
	160			11.188	284.18	11.498	292.05	1.406	35.71
16	60	16-1/4	412.75	14.688	373.08	14.811	376.20	0.656	16.66
	80			14.314	363.58	14.484	367.89	0.844	21.44
	100			13.938	354.03	14.155	359.54	1.031	26.19
	120			13.564	344.53	13.827	351.21	1.219	30.96
	140			13.124	333.35	13.442	341.43	1.438	36.53
	160			12.814	325.48	13.171	334.54	1.594	40.49
18	40	18-9/32	464.34	16.876	428.65	16.975	431.17	0.562	14.27
	60			16.500	419.10	16.646	422.81	0.750	19.05
	80			16.126	409.60	16.319	414.50	0.938	23.83
	100			15.688	398.48	15.936	404.50	1.156	29.36
	120			15.250	387.35	15.553	395.05	1.375	34.93
	140			14.876	377.85	15.225	386.72	1.562	39.67
	160			14.438	366.73	14.842	376.99	1.781	45.24
20	40	20-5/16	515.94	18.814	477.88	18.921	480.59	0.594	15.09
	60			18.376	466.75	18.538	470.87	0.812	20.62
	80			17.938	455.63	18.155	461.14	1.031	26.19
	100			17.438	442.93	17.717	450.01	1.281	32.54
	120			17.000	431.80	17.334	440.28	1.500	38.10
	140			16.500	419.10	16.896	429.16	1.750	44.45
	160			16.064	408.03	16.515	419.48	1.969	50.01
24	30	24-3/8	619.13	22.876	581.05	22.975	583.57	0.562	14.27
	40			22.626	574.70	22.757	578.03	0.688	17.48
	60			22.064	560.43	22.265	565.53	0.969	24.61
	80			21.564	547.73	21.827	554.41	1.219	30.96
	100			20.938	531.83	21.280	540.51	1.531	38.89
	120			20.376	517.55	20.788	528.02	1.812	46.02
	140			19.876	504.85	20.350	516.89	2.062	52.37
	160			19.314	490.58	19.859	504.42	2.344	59.54

Butt-welding Dimensions - ANSI B16.25

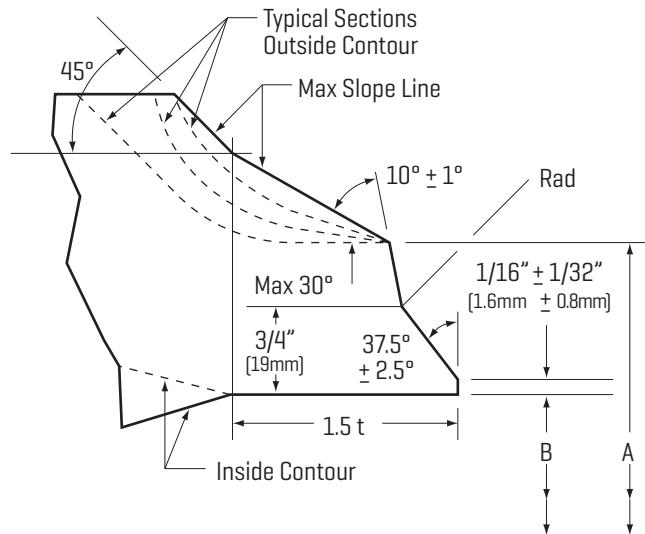
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" [22.23mm] or less.

Welding end details for cast components for use without backing ring or with split backing ring.



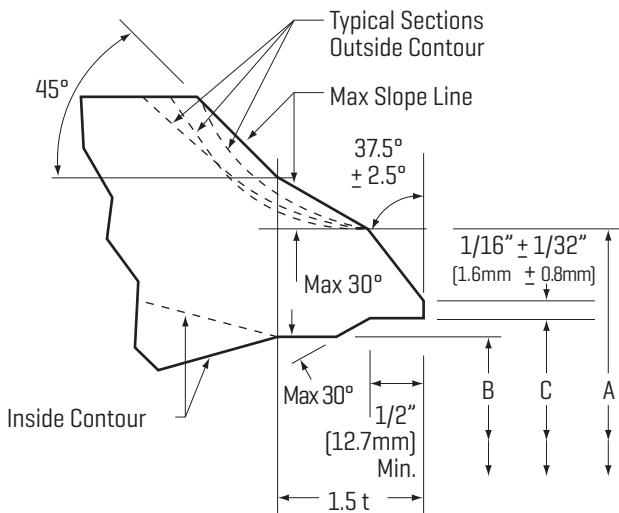
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" [22.23mm].

Welding end details for cast components for use without backing ring or with split backing ring.



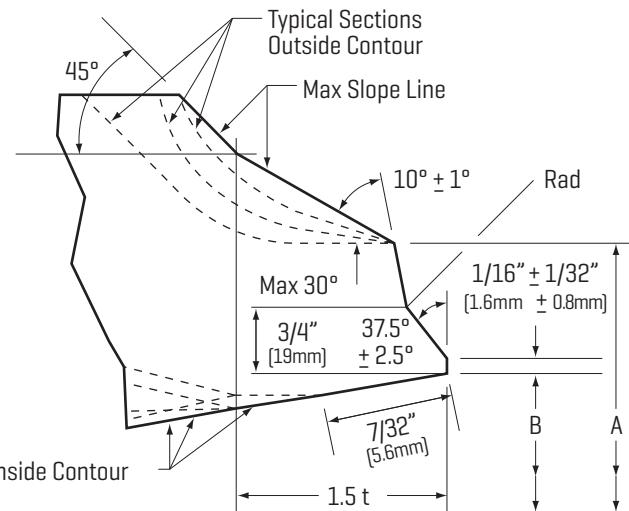
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" [22.23mm] or less.

Welding end details for cast components for use with continuous rectangular or tapered backing ring.



Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" [22.23mm].

Welding end details for cast components for use with continuous rectangular or tapered backing ring.



The SCV valve brand was established in 1972 as a maintenance and modification company with the ability to provide full in-line valve service and repair. In the mid-1970's, after experiencing many shortcomings of other valve products in the industry, the first SCV valve was manufactured. Since that time, the SCV brand has been expanded its manufactured products to cover a broad range of valves. Industries served include the power, paper and pulp, oil and gas, and petro-chemical sectors.

SCV Valve takes sincere pride in our ability to manufacture both commodity and specialty valves that meet and exceed the needs of our customers. All sizes, pressure classes, and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure the customer's total satisfaction.

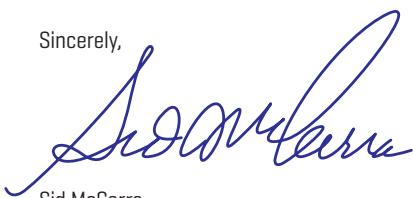
SCV Valve products include thru conduit gates, trunnion mounted balls, floating balls, wedge gates, full port swing checks, piston checks, and lubricated plugs. Valves utilized throughout the industry must meet rigorous quality and production standards.

SCV Valve has earned its API 6A, API 6D, ISO: 9001, CE-PED, and CRN certifications while operating under the API Q1 Quality Management System.

With years of dedication and commitment to quality, design, and service, SCV Valve has grown to be one of the premier valve manufacturers in the industry with the largest inventory of high pressure ball, gate, and check valves. We pride ourselves on our high quality products, timely delivery capabilities, and competitive prices.

On behalf of all of the members at SCV Valve, we thank you for the opportunity to earn your business.

Sincerely,



Sid McCarra
President
SCV Valve, LLC

Since 1972, the SCV brand has been committed to providing quality flow control products to the Power, Paper & Pulp, Oil & Gas, and Petro Chemical industries.

As one of the largest valve manufacturers, SCV Valve's reputation is unparalleled for producing high quality commodity and specialty valves. Products range in sizes 1/2" - 48", in pressure classes from 150# - 2500# and are backed by timely deliveries and competitive prices.

Call SCV today at [281]482-4728 for all your valve needs or visit us on the web @ www.scvalve.com.



**SALES, PROJECTS, ENGINEERING,
MANUFACTURING, & WAREHOUSING**

3521 FM 646 Rd. North
Santa Fe, TX 77510

Phone: [281] 482-4728
Fax: [281] 482-9728

Hours: 8:00 a.m. to 5:00 p.m. Central Standard
Email: sales@scvalve.com

[281] 482-4728 • www.scvalve.com